Document No. 15.

# EIGHTH ANNUAL REPORT

OF THE

# INSPECTOR

OF

# Factories and Workshops

OF THE

# STATE OF NEW JERSEY,

# 1890.

# OFFICERS.

CHIEF INSPECTOR.

L. T. FELL, . . . . . Orange.

DEPUTY INSPECTORS.

| | | |
|---|---|---|
| E. R. WHITE, | First District, | Vineland. |
| JOHN D'ARCY, | Second District, | Trenton. |
| FRANCIS SAYRE, | Third District, | Elizabeth. |
| J. S. WEINTHAL, | Fourth District, | Hoboken. |
| THOMAS COGAN, | Fifth District, | Passaic. |
| P. CALLAN, | Sixth District, | Newark. |

# FACTORY DISTRICTS.

FIRST DISTRICT.

Camden, Atlantic, Gloucester, Salem, Cumberland and Cape May counties. Ocean county south of Toms River. Burlington county south of Beverly.

SECOND DISTRICT.

Burlington county north of Beverly. Mercer, Hunterdon, Warren and Sussex counties. Morris county west of Boonton.

THIRD DISTRICT.

Monmouth, Middlesex, Somerset and Union counties.

FOURTH DISTRICT.

Hudson county.

FIFTH DISTRICT.

Passaic and Bergen counties. Morris county east of Denville.

SIXTH DISTRICT.

Essex county.

# REPORT.

OFFICE OF
INSPECTOR OF FACTORIES AND WORKSHOPS,
STATE OF NEW JERSEY.
ORANGE, N. J., October 31st, 1890.

*Hon. Leon Abbett, Governor State of New Jersey:*

SIR—In compliance with the law, I herewith submit the annual report of the Inspector of Factories and Workshops for the year ending October 31st, 1890. At a conference held with the Deputy Factory Inspectors, November 1st, 1889, at which the work of the department for the year ending October 31st, 1889, was carefully reviewed, it was decided, after due deliberation, that it would be to the advantage of the department to have the Deputy Inspectors report by districts, holding each Inspector responsible for the district assigned to him. I have divided the State into six factory districts, thereby giving each Inspector a certain territory to cover. I find that this has been a great advantage to this department.

The reports of the Deputies are hereby annexed, with their suggestions as to what legislation is necessary to make the department more efficient in the future.

The Inspectors have not had the support that they should have had from the city and township authorities for the enforcement of the Compulsory Education law. I find that the cities of Newark, Orange and Hoboken are the only ones that have complied with the law, and have efficient truant departments.

I would recommend that the law be so amended as to make it mandatory upon the authorities of every school district to have truant officers appointed, so as this most important law can be enforced. It is true that many will say that it is useless to appoint truant

officers in every school district to enforce a compulsory attendance at school, when there are many districts that have not sufficient school-room to accommodate all the children of school age. There is not near the lack of school accommodation as there appears to be. A comparison between the census of the children between five and eighteen years of age and the school capacity is not a fair one. It would be nearer correct to make the comparison between seven and fourteen years of age, deducting from the number ascertained by such a comparison, the children attending private or parochial schools, and the number of boys between twelve and fourteen years at work, and it will be found that many districts that are classed as not having sufficient school accommodation for all the children, can accommodate all who are compelled by law to attend school; but, even if this is not so, there should be a compulsory law and means to enforce it, even if some districts have to introduce the half-day system for all primary classes, thereby doubling the accommodations immediately. Let the law be enforced, and the people will see that the school authorities provide the school accommodation. In connection with this matter I beg to suggest that the law provide for an examination of all boys and girls up to sixteen years of age who apply for work in factories, said examination to consist of the primary studies. If such a law was enforced, it would, in a great measure, do away with truancy, as we have found in our experience many boys and girls who were dismissed from factories, as being under the legal age, simply loafed for the year or more, then returned to work. This would not happen if they had to pass an examination in the primary studies, before getting a certificate permitting them to work.

The city of Newark has an organized truant department. Mr. Haynes, the truant officer, has rendered valuable services to this department in the enforcement of the Compulsory Education law, as the following figures show: Notice of truants received from truant officer by Deputy Inspector Callan, and discharged from factories and returned to school, 112; number returned to evening school, 507. I commend the truant departments of the cities of Newark and Orange to the municipalities of the State.

I am informed by counsel that the Factory act, approved May 13th, 1889, is defective in its title. I would respectfully recommend that it be so amended that the provisions of the law can be enforced. This act referred to, and all other laws relating to this department,

will be found in the Appendix. I would further recommend that the General Factory act be so amended that all elevators shall be supplied with safety catches, and that all hatchways and elevators shall have automatic gates or doors, and that the Inspectors shall have authority to test all elevators when deemed necessary by them, and condemn them for use when not in proper order.

In conclusion I wish to say, in justice to this department, that in the last printed report a large number of errors and omissions were made, thereby making it rather incomplete. I was denied an opportunity to examine the proof of the printer before the report was issued.

I also desire to call your attention to the Fourth Annual Convention of the Factory Inspectors of North America, held in New York City, August 27th–30th, 1890. The following States were represented: Maine, Massachusetts, Connecticut, New Jersey, New York, Pennsylvania, Ohio, Rhode Island and Canada. The important papers read before the convention by the New Jersey delegation were on "Model School-Houses," "Stopping Machinery Quickly," "Accidents in Factories" and "Compulsory Education." These papers appear in full in the Appendix.

The Committee on Resolutions made the following report, which was adopted:

"NEW YORK, August 30th, 1890.

"The International Association of Factory Inspectors of North America, in convention assembled, view with extreme gratification and hearty approval the progress made by the respective States here represented in the enactment of factory or industrial laws which, while imposing additional duties on us as Inspectors, have afforded us greater latitude for operation and provided for the more effectual prosecution of the beneficent provisions of such legislation. We recognize, in connection with our labors, a growing disposition among employes to conform to the spirit and intention of the factory laws, and the commendable humane effort on the part of so many to provide for the physical comfort and the mental improvement of their employes beyond what the State requires of them. We are justly proud of the work accomplished through factory legislation for the amelioration of the condition of working people, and the influences wielded thereby for promoting the best interests of society. In consideration of what has been achieved in that direction we commend to the attention of the people of the United States and Canada the necessity of adopting a system of factory inspection in every State and Province,

and to the States and Provinces here represented we suggest the wisdom of additional legislation, as follows:

"To prevent the employment of children in factories, workshops and mercantile establishments under fourteen years of age, and compelling all children of such age, and all unable to read and write intelligibly the English language under the age of sixteen years, to attend some public or private school until so qualified. To prevent the employment of any child under sixteen years of age at any hazardous occupation, or at which its health is liable to be impaired, or its morals corrupted, and the employment of any minor under eighteen years of age or of any woman later than nine P. M. or earlier than six A. M. of any day, and that no minor under eighteen years of age or woman shall be employed more than sixty hours in one week; and we recommend that all legislation for regulating the hours of labor, and the employment of women and minors, be made uniform in the several States, excepting in the Province of Quebec, where French is spoken generally, where the same degree of efficiency should be required in the French or English language, here represented. That laws be enacted in all States and Provinces requiring that at least 250 cubic feet of air space be provided for each person employed in workshops during the day-time, and 400 cubic feet during the night-time, and that adequate means for free ventilation be provided, and we deem it advisable that children in our public schools be taught the importance of the preservation of health in all conditions of life, and a knowledge of the laws of hygiene and sanitation.

"We recommend laws compelling the guarding of machinery, protection of elevators and hoistways, and the erection of fire-escapes where necessary, and that full power be granted to Inspectors in every State and Province to guard all unprotected machinery and parts of machinery which may be deemed necessary in the judgment of the Inspector. Laws, also, compelling the erection of school-houses upon scientific hygienic principles, and prohibiting the erection of any school building more than two stories in height; also providing that all tenements, public halls, hotels, factories and workshops shall be constructed as nearly fire-proof as possible with proper sanitary provisions, and that the plans and specifications thereof be submitted to State or local officers for their approval before building operations are commenced.

"We submit to the people that such enactments would be in the direction of sound public policy, and would tend to elevate and guard society in general against the evils of ignorance in our toilers, ill health in our children, unsafe work-rooms for our industrial population, and protect the lives, limbs and property of all; therefore be it

"*Resolved*, That copies of the foregoing be given to the Telegraphic Press Association for circulation, and sent to the presiding

officers of the legislative bodies and Governors of the various States and Provinces, and we respectfully urge them to aid in engrafting such laws on their statutes.

"EVAN H. DAVIS, JOHN FRANEY,
"L. T. FELL, ROBERT BARBER,
"JOS. M. DYSON, W. S. SIMMONS."

I have every reason to be satisfied with the work of the department during the past year. The laws have been enforced so far as practicable, and with the additional legislation asked for, the department will be more efficient in the future.

Respectfully submitted,

L. T. FELL,
*Inspector Factories and Workshops.*

# APPENDIX.

# FIRST DISTRICT.

*To L. T. Fell, Esq., Chief Inspector of Factories and Workshops:*

The result of the work done in the First District, comprising the counties of Atlantic, Cape May, Gloucester, Salem and Camden, Ocean county south of Toms River, and Burlington county south of Beverly, will show quite a notable change over that of former years. The ventilation and sanitary arrangements of a number of large mills have been much improved. The manufacturers, as a rule, have given the Deputy every assistance they could in ascertaining the correct ages of children employed. The result has been 68 discharges for being under the legal age and for non-attendance at school.

Of the 78 changes ordered, such as guarding machinery and elevators, additional water-closets and toilet accommodations, whitewashing buildings, &c., all but four have been complied with, and these will be before this report is published. Thirteen permits have been granted to orphan children to work in factories and 13 accidents have been reported, all of which have been investigated. Many of them have been caused by carelessness on the part of the persons injured. A list of accidents will be found appended to this report.

All of which is respectfully submitted,

E. R. WHITE,
*Deputy Inspector, First District.*

## FACTORIES INSPECTED—FIRST DISTRICT.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Bridgeton | Burges, Montelious & Co | Shirts | 5 | 55 | ..... | ..... |
| " | Perfecting Funnel Works | Perfecting funnels | 13 | 4 | ..... | ..... |
| " | B. S. Ayars | Canned tomatoes | 40 | 100 | 12 | ..... |
| " | Ferricute Machine Co | Machine shop | 90 | 1 | ..... | ..... |
| " | W. J. Smith | Earthenware | 4 | ..... | ..... | ..... |
| Fairton | Gibson, Horton & Co | Glass | 65 | 11 | ..... | ..... |
| Newport | Stathen, Cosier & Co | Canned goods | 50 | 100 | 12 | 5 |
| Br dgeton | Cumberland Packing Co | Canned tomatoes | 50 | 125 | 20 | ..... |
| " | Probasco & Lanning | " " | 50 | 100 | 3 | ..... |
| " | John W. Stout | " " | 30 | 100 | 10 | ..... |
| " | West Jersey Packing Co | " " | 60 | 140 | 25 | ..... |
| " | J. F. Brady | " " | 45 | 130 | 6 | 6 |
| " | Bridgeton Mills | Enameled cloth | 29 | 6 | ..... | ..... |
| " | Parker Bros | Glass | 27 | ..... | ..... | ..... |
| " | Cox & Son | Machine works | 80 | ..... | ..... | ..... |
| " | Canners' Supply Co | Can factory machinery | 30 | ..... | ..... | ..... |
| " | Trenchard, Crickler & Co | Bottle moulds | 12 | ..... | ..... | ..... |
| " | Cohansey Glass Mfg. Co | Glass | 450 | ..... | 60 | ..... |
| " | Getsinger & Son | " | 150 | 1 | 8 | ..... |
| " | More, Jonas & More | " | 155 | ..... | 15 | 12 |
| " | Cumberland Glass Co | " | 248 | 2 | 30 | ..... |
| " | J. L. Rice & Co | Shoes | 37 | 23 | 2 | ..... |
| " | East Lake Woolen Mills | Woolen cloth | 75 | 50 | 7 | ..... |
| " | Kirbey & McBride | Glass | 80 | ..... | 16 | ..... |
| " | Cumberland Nail and Iron Works | Nails and iron pipe | 325 | ..... | 4 | ..... |
| " | Sol. Miller & Co. | Shirts | 10 | 45 | ..... | ..... |
| " | East Lake Glass Works | Glass | 80 | ..... | 16 | ..... |
| Camden | Acroyd & Scull | Worsted yarns | 45 | 60 | 13 | ..... |
| " | New Jersey Knitting Mills | Knitted underskirts | 2 | 12 | 3 | ..... |
| " | Pacific Steam Laundry | Laundry | 7 | 18 | 1 | ..... |
| " | Chas. F. Hollingshead | Machine works | 32 | ..... | ..... | ..... |
| " | R. H. & B. C. Reeves | Oilcloths | 100 | ..... | ..... | ..... |
| " | W. Wharton Fisher | Dye stuffs | 35 | ..... | ..... | ..... |
| " | New Jersey Chemical Co | Fertilizers | 35 | ..... | ..... | ..... |
| " | Camden Chemical Works | Chemicals | 60 | ..... | ..... | ..... |
| " | T. S Wheatley | Shoes | 18 | 12 | ..... | ..... |
| " | Camden Iron Works | Iron pipe and hydraulic machinery | 650 | ..... | ..... | ..... |
| " | Lobe & Schoenfield | Embroidered skirts | 4 | 31 | ..... | ..... |
| " | George Simmer & Boyer | Woolen yarns | 11 | 22 | ..... | ..... |
| " | Over Brook Mills | Woolen cloth | 125 | 75 | 10 | 2 |
| " | Consolidated Electric Storage Co | Storage batteries | 23 | ..... | ..... | ..... |
| " | Browning Brothers | Dye stuffs and chemicals | 70 | ..... | 1 | ..... |
| " | Francis & Taylor | Shoe lasts | 12 | ..... | ..... | ..... |
| " | R. H. Comey | Straw dye works | 12 | ..... | ..... | ..... |
| " | Isaac Ferris, Jr | Shoes | 39 | 19 | 2 | ..... |
| " | Spraunce & Birkhead | Woolen yarns | 14 | 6 | 1 | ..... |
| " | W S. Scull | Coffee roasting | 6 | 6 | ..... | ..... |
| " | Cottrell & Wolfenden | Hosiery | 40 | 80 | 8 | ..... |
| " | Monroe & Martin | Shoes | 6 | 4 | ..... | ..... |
| " | C. P. Coles | Sash and blinds | 50 | ..... | ..... | ..... |
| " | American Dredging Co | Steam dredges | 90 | ..... | ..... | ..... |
| " | L. L. Craign | Soap | 11 | 4 | ..... | ..... |
| " | Wm. Conlin | Shoes | 6 | 3 | ..... | ..... |
| " | J. B. Vansciver & Co | Furniture | 42 | 3 | 1 | ..... |
| " | Far & Bailey | Oilcloth | 130 | ..... | ..... | ..... |
| " | Highland Worsted Mills Co | Worsted yarns | 50 | 200 | 50 | ..... |
| " | Camden Woolen Mills | Woolen cloths | 150 | 75 | 2 | ..... |
| " | Linden Worsted Mills | Worsted yarns | 170 | 150 | 80 | ..... |
| " | West Jersey Paper Mills | Paper | 80 | 2 | ..... | ..... |
| " | Legal Paper Mfg. Co | " | 25 | ..... | ..... | ..... |

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## FACTORIES INSPECTED—FIRST DISTRICT—Continued.

| Location. | Name of Company. | Goods Manufactured. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Camden | Keystone Chemical Co | Chemicals and phosphates | 45 | | | |
| " | R. Esterbrook & Co | Steel pens | 60 | 200 | 8 | |
| " | Clay & Tarbenson | Electric machinery | 8 | | | |
| " | United States Chemical Co | Acid and alum | 40 | | | |
| " | Joseph Campbell & Co | Canned goods and preserves | 45 | 80 | 10 | |
| " | Loeb & Wolf | Matches | 40 | 30 | | |
| " | Brighten Mills | Elastic webbing | 53 | 17 | 3 | |
| " | D. B. Murphy | Files | 7 | 1 | | |
| " | E. G. Locke | Coated paper | 18 | | | |
| " | H. B. Anthony Shoe Co | Shoes | 65 | 60 | 6 | 2 |
| " | Scudder & Son | Sash and blinds | 60 | | | |
| " | American Nickel Works | Nickel | 60 | | | |
| " | Cook Mining Machinery Co | Mining machinery | 10 | | | |
| " | I. M. Hoey | Shoes | 9 | 3 | 2 | |
| " | Kiffery Morocco Co | Morocco | 100 | 2 | | |
| " | F. M. McAdams | Shoes | 30 | 20 | 2 | |
| " | Dorrel & Seymoure | " | 20 | 10 | 1 | |
| " | Richter Electric Light Co | Dynamos | 11 | 1 | | |
| " | Domestic Conserve Co | Preserves | 10 | 1 | | |
| " | A. Priestley & Co | Woolen cloth | 70 | 50 | 3 | |
| " | A. M. Furbush & Son | Woolen machinery | 250 | | | |
| " | Samuel P. Wright & Co | Printers' ink | 8 | 1 | | |
| " | Anderson Preserving Co | Preserved fruit | 50 | 200 | 25 | |
| " | Thomas Kelley | Shoes | 60 | 15 | 3 | |
| " | C. C. Hitchner & Co | " | 18 | 12 | | |
| " | Camden Glass Mfg. Co | Glass | 125 | | 9 | |
| Williamstown | Monroe Glass Works | " | 30 | | 2 | |
| " | Bodine, Thomas & Co | " | 200 | | 39 | |
| Egg Harbor | Julius Heim & Co | Parchment paper | 8 | | | |
| " " | John J. Gardner | Canned goods | 7 | 30 | 4 | |
| " " | G. Fordtran | Carpets | 6 | 2 | | |
| " " | Chas. Kraus & Son | Canned goods | 5 | 20 | 3 | |
| " " | John Ramish | Cigars | 10 | 4 | | |
| " " | Charles Winterberg | Clothing | 3 | 6 | | |
| " " | Jacob Obert | " | 3 | 2 | | |
| " " | Jacob Ruetch | " | 2 | 6 | | |
| " " | Andrew Beck | " | 2 | 4 | | |
| " " | Segal & Son | " | 2 | 3 | | |
| " " | Henry Byer | " | 2 | 6 | | |
| " " | George Shoemaker | " | 2 | 6 | | |
| " " | I. Berenstine | " | 3 | 5 | | |
| Gloucester | Seimens Lungran Co | Gas Lamps | 20 | | | |
| " | United Electric Improvement Co | Storage batteries | 18 | | | |
| " | The Electric Storage Co | " " | 24 | | | |
| " | Wells Novelty Wrench | Novelty wrench | 8 | | | |
| " | Incandescent Gas Light Co | Incandescent burners | 20 | 49 | | |
| " | Washington Mfg. Co | Cotton goods | 351 | 387 | 61 | 1 |
| " | Gloucester Mfg. Co | Calico print works | 240 | 60 | 1 | |
| " | Gloucester Gingham Mills | Ginghams | 300 | 200 | 60 | 1 |
| Glassboro | Warrick Glass Works | Window glass | 110 | | | |
| " | Whitney Glass Works | Glass | 300 | | 96 | 3 |
| Hammonton | Wm. Burnshouse | Sash, doors and blinds | 27 | | | |
| " | John T. French | Paints | 6 | | | |
| " | C. F. Osgoods | Shoes | 60 | 20 | | |
| " | Wiffen Bros. & Co | " | 75 | 25 | 2 | |
| Elmer | Luke M. Smith | Canned goods | 25 | 100 | 15 | |
| " | Charles Cotting | Spindles | 12 | | 2 | |
| " | Thomas W. Brooks | Shoes | 35 | 20 | 2 | |
| " | Butcher & Waddington | Glass | 40 | | | |
| Mount Holly | Kiner & Co | Shoes | 24 | 17 | 1 | |
| " " | F. S. Davis & Co | " | 19 | 11 | 1 | |
| " " | R. W. Bowker | " | 25 | 25 | 3 | |

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## FACTORIES INSPECTED—FIRST DISTRICT—Continued.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Mount Holly | Mount Holly Mills Co | Carpets | 65 | 60 | 1 | ..... |
| " " | Mount Holly Box Factory | Paste-board boxes | 3 | 16 | ..... | ..... |
| " " | W. D. Troth | Shoes | 10 | 12 | 2 | ..... |
| " " | Mount Holly Shoe Co | " | 41 | 39 | 2 | ..... |
| " " | J. L. Anderson | Canned goods | 50 | 80 | 6 | 4 |
| " " | E. B. Jones & Co | " " | 100 | 100 | 2 | ..... |
| Millville | R. D. Wood & Co | Iron pipe | 160 | ..... | ..... | ..... |
| " | Manantico Bleach and Dye Works | Bleach and dye works | 175 | 25 | 10 | ..... |
| " | J. C. Wheaton & Co | Glass | 98 | 9 | 15 | ..... |
| " | Whital-Tatum Co | " | 1650 | 48 | 192 | 3 |
| " | Millville Mfg. Co | Cotton goods | 150 | 200 | 50 | 1 |
| " | G. S. Bennett & Co | Window glass | 40 | ..... | ..... | ..... |
| " | F. M. Pierce & Co | Glass | 110 | ..... | 25 | ..... |
| " | Moore Bros | " | 156 | ..... | 23 | ..... |
| Newfield | R. J. Morrell | Rattan baby coaches | 14 | 6 | 2 | ..... |
| Pleasantville | Composing Machine Co | Composing machines | 15 | ..... | ..... | ..... |
| Mays Landing | Mays Landing Cotton Works | Cotton goods | 150 | 125 | 30 | ..... |
| Atco | Atco Glass Co | Glass | 50 | ..... | ..... | ..... |
| Medford | Starr Glass Co | " | 40 | ..... | 8 | ..... |
| Malaga | Fred Fries | Rugs | 23 | 6 | 2 | ..... |
| Riverside | Tauble Bros | Hosiery | 50 | 60 | 19 | ..... |
| " | Christian Dick | " | 15 | 15 | 3 | ..... |
| " | Leech Bros | Shoes | 20 | 15 | 2 | ..... |
| " | Frank Lambert | " | 65 | 35 | ..... | ..... |
| " | J. J. Hennig | Paper boxes | 1 | 9 | ..... | ..... |
| " | F. Pfeifer & Son | Hosiery | 10 | 5 | 1 | ..... |
| " | Pfaul Bros | Shoes | 18 | 12 | ..... | ..... |
| Beverly | L Leach | " | 7 | 5 | ..... | ..... |
| " | T. Birkhead | Hosiery | 35 | 40 | 4 | ..... |
| " | Davis & Bros | Shoes | 24 | 11 | ..... | ..... |
| " | George Birkhead | Shirts and skirts | 4 | 32 | ..... | ..... |
| Salem | Harry Lambert | Canned tomatoes | 75 | 100 | 5 | 4 |
| " | Jones & Ayars | Canned goods | 70 | 130 | 16 | 6 |
| " | Chew & Billerback | " " | 50 | 100 | 10 | 6 |
| " | William Morris | Oil cloth | 75 | ..... | ..... | ..... |
| " | Hiles & Hilliard | Canned goods | 50 | 120 | 12 | 9 |
| " | Starr & Bros | " " | 70 | 130 | 3 | ..... |
| " | John Gayner | Glass | 102 | 4 | 3 | ..... |
| " | Craven Bros | " | 350 | ..... | 25 | ..... |
| " | Hires & Co | " | 100 | ..... | ..... | ..... |
| Winslow | Winslow Glass Works | " | 200 | 20 | 5 | ..... |
| Vineland | Holmes, Prince & Co | Shoes | 82 | 20 | 1 | ..... |
| " | George A. Cheever | Paper boxes | 2 | 10 | ..... | ..... |
| " | Kimble, Prince & Co | Sash, doors and blinds | 12 | ..... | ..... | ..... |
| " | Rob't Pond | Packing boxes | 4 | ..... | ..... | ..... |
| " | E O. Miles & Co | Pearl buttons | 30 | ..... | 2 | ..... |
| " | Fire-Proof Brick Co | Fire-proof brick | 45 | ..... | ..... | ..... |
| " | Daggett & Co | Patent baking pans | 12 | ..... | ..... | ..... |
| Cedarville | W. L. Stevens & Co | Canned goods | 48 | 87 | 5 | 3 |
| " | John E. Diamet | " " | 45 | 75 | 14 | 12 |
| Vineland | Armstrong Sons | Iron foundry | 14 | ..... | ..... | ..... |
| " | Gage Tool Co | The gage plane | 9 | 1 | ..... | ..... |
| " | Tillier & Bros | Glass | 100 | ..... | ..... | ..... |
| " | Leach Bros | Saw mill | 12 | ..... | ..... | ..... |
| " | Thomas Hirst | Rugs | 98 | 28 | 4 | ..... |
| " | Harry Chandler | Shoes | 35 | 20 | ..... | ..... |
| " | Adam Weber | Brass foundry | 6 | ..... | ..... | ..... |
| " | Chas Keighley | Shoes | 91 | 29 | 1 | ..... |
| " | Wm. Procter | " | 20 | 10 | ..... | ..... |
| " | Joseph Mason | " | 18 | 12 | 2 | ..... |
| " | John Northrop | " | 18 | 12 | ..... | ..... |
| Woodbury | Standard Window Glass Co | Window glass | 64 | ..... | ..... | ..... |

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# REPORT OF THE INSPECTOR OF

## FACTORIES INSPECTED—FIRST DISTRICT—Continued.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Woodbury | Woodbury Novelty Works | Novelties | 14 | ..... | ..... | ..... |
| " | Hope Mfg. Co | Iron, glass and paper show cards. | 170 | 30 | ..... | ..... |
| " | John Wyeth & Bro. | Extract of malt | 10 | 13 | ..... | ..... |
| " | G. G. Green | Patent medicines | 50 | 25 | ..... | ..... |
| " | Woodbury Glass Works | Glass hollow ware | 198 | 6 | 45 | 2 |
| " | Gloucester County Glass Co. | " " " | 30 | ..... | 8 | 1 |
| Greenwich | Job Bacon | Canned goods | 140 | 160 | ..... | ..... |
| " | B. F. Maul & Co. | " " | 50 | 70 | 8 | ..... |

## CHANGES ORDERED AND CONDITION OF FACTORIES—FIRST DISTRICT.

| Location and Name of Company. | | Changes Ordered. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|---|
| Bridgeton— | | | | |
| J. F. Braidy | 1 | Discharge six girls; cover gearing on capping machine | Complied with. | Good. |
| West Jersey Packing Co | 1 | Bars on all doors leading to elevator shaft | Complied with. | Good. |
| Bridgeton Mills | 1 | Box belts and gearing of elevator hoist | Complied with. | Very Good. |
| Cox & Son | 2 | Bars in front of hoistway, and rail in front of window between engine and stairway | Complied with. | Good. |
| Trenchard & Crickler | 2 | Gates for elevator and box driving belts | Complied with. | Good. |
| More, Jonas & More | | Discharge one boy | Complied with. | Good. |
| J. L. Rice & Co | 1 | Arrange doors to swing outward | Complied with. | Good. |
| Beverly— | | | | |
| L. Leach | 3 | Box all shafts under sewing machine bench; box countershaft and driving belts; cover opening in floor near sewing machine | Complied with. | Fair. |
| T. Birkhead | 3 | Cover set-screws on sewing machine shaft; box belts on end of knitting shaft; clean and whitewash privies | Complied with. | Good. |
| Riverside— | | | | |
| F. Peifer & Son | 2 | Extra water-closet, six buckets for water, in case of fire | | Fair. |
| Pfaul Bros | 1 | Box coupling of shaft under sewing bench | Complied with. | Good. |
| Egg Harbor— | | | | |
| Chas Kraus & Son | 2 | Box shaft and drive belt | Complied with. | Good. |
| Camden— | | | | |
| F. McAdams | 1 | Box end of engine shaft | Complied with. | Good. |
| Adolf Segal | 1 | Arrange doors to swing outward | | Fair. |
| N. J. Knitting Mills | 1 | Box shaft under knitting bench | Complied with. | Good. |
| Charles T. Hollingshead | 3 | Box three belts | Complied with. | Good. |
| Camden Iron Works | 2 | Fence balance and gear wheel on large power punch; box gearing or horizontal puuch | Complied with. | Good. |
| Overbrook Mills | | Discharge one boy and girl | Complied with. | Good. |
| Browning Brothers | 1 | Box engine shaft | Complied with. | Very good. |
| Priestley & Co | 1 | Better ventilation | Complied with. | Very good. |
| Levy Backerack | 1 | Extra water-closet | Complied with. | Fair. |
| J. B. Vansciver & Co | 1 | Automatic doors for elevators | Complied with. | Good. |
| West Jersey Paper Co | 1 | Rail in front of large pulley | | Good. |
| Legal Paper Mfg. Co | 1 | Fence balance wheel on cutting machine | Complied with. | Good. |
| Spraunce & Birkhead | 2 | Cover gearing on carding machine, and guard-rail on elevator | Complied with. | Good. |
| Keystone Chemical Co | 1 | Fence balance wheel on crusher | Complied with. | Fair. |
| United States Chemical Co | 2 | Box belts on grinding machine; guard-rail around engines | Complied with. | Fair. |
| Loet & Wolf | 1 | Fence in elevator | Complied with. | Good. |
| H. B. Anthony Shoe Co | 1 | Discharge one boy | Complied with. | Good. |
| R. H. & B C. Reeves | 1 | Box driving belt | Complied with. | Very good. |
| Consolidated Electric Storage Co | 2 | Put railing on stairway and bars around elevator shaft | Complied with. | Fair. |
| Francis & Taylor | 2 | Box gearing end of shaping machine; guard circular saw | Complied with. | Fair. |
| R. H. Corney | 1 | Fence balance wheel on engine | Complied with. | Good. |

## CHANGES ORDERED AND CONDITION OF FACTORIES—FIRST DISTRICT—Continued.

| LOCATION AND NAME OF COMPANY. | | CHANGES ORDERED. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|---|
| Camden— | | | | |
| Isaac Ferris, Jr. | 2 | Fence balance wheel on engine; arrange for better escape in case of fire | Complied with. | Fair. |
| Northrop Mfg. Co. | 1 | Extra water-closet | | Good. |
| Gloucester— | | | | |
| Seemens Lungru Co. | 2 | Box belts on two drill presses, and gate between engine and draw-bench | Complied with. | Very good. |
| United Electric Improvement Co. | 12 | Box counter-shaft of saw-bench, and box dynamo of counter-shaft. | Complied with. | Very good. |
| Washington Mfg. Co. | | Discharge one girl | ~~Complied with.~~ | Very good. |
| Gloucester Mfg. Co | 1 | Box main shaft in cellar | Complied with. | Excellent. |
| Gloucester Gingham Mills. | | Discharge one boy | Complied with. | Very good. |
| Glassboro— | | | | |
| Whitney Glass Works | | Discharge three boys | ~~Complied with.~~ | Good. |
| Hammonton— | | | | |
| Wm. Burnshouse | 1 | Box counter-shaft of circular saw | Complied with. | Good. |
| J. T. French | 1 | Fence balance wheel of engine | Complied with. | Good. |
| Wiffen Bros & Co | 1 | Clean and whitewash privies | Complied with. | Fair |
| C. F. Osgood | 1 | Clean and whitewash privies | Complied with. | Good. |
| Elmer— | | | | |
| Luke M. Smith | 1 | Whitewash outbuildings | Complied with. | Good. |
| Chas. M. Cotting | 1 | Bars on doors of second floor | Complied with. | Good. |
| Thomas W. Brooks | 1 | Clean and whitewash privies | Complied with. | Good. |
| Mount Holly— | | | | |
| Kiner & Co. | 1 | Box large pulley on engine shaft | Complied with. | Good. |
| F. S. Davis & Co. | 2 | Box end of shaft under sewing bench; bars over elevator | Complied with. | Fair. |
| R. W. Bowker | 1 | Box end of shaft under sewing bench | Complied with. | Good. |
| Mount Holly Mills Co. | 3 | Box three driving belts; box weight on elevator gearing; put bars in front of doors on landing | Complied with. | Good. |
| Mount Holly Shoe Co. | 1 | Fence balance wheel of engine | Complied with. | Good. |
| J. S. Anderson & Co. | | Discharge four girls | Complied with. | Good. |
| Millville— | | | | |
| R. Wood & Co. | 1 | Cover gear wheels on core-making machine | Complied with. | Fair. |
| Manantico Bleach and Dye Works | 1 | Box end of shaft on small engine in dye-house | Complied with. | Good. |
| T. C. Wheaton & Co | 2 | Whitewash factory; clean and whitewash privies | Complied with. | Good. |
| Whital-Tatum Co. | | Discharge three boys | ~~Complied with.~~ | Very good. |
| Millville Mfg. Co | | Discharge one girl | ~~Complied with.~~ | Very good. |
| G. S. Bennett | 1 | Fence elevator | Complied with. | Good. |
| Winslow— | | | | |
| Winslow Glass Works | | Discharge five boys | ~~Complied with.~~ | Good. |
| Malaga— | | | | |
| Fred Fries | 1 | Box gear-wheel on cutting machine | Complied with. | Good. |
| Vineland— | | | | |
| John Northrup | 2 | Rail on outside landing; box driving belts | Complied with. | Very good. |
| Holmes, Prince & Co. | 1 | Box coupling on shaft of sewing bench | Complied with. | Good. |

## CHANGES ORDERED AND CONDITION OF FACTORIES—FIRST DISTRICT—Continued.

| Location and Name of Company. | Changes Ordered. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|
| Vineland— | | | |
| Philadelphia Fire Brick Co. 2 | Guard belts and large pulleys; put rails on stairway | Complied with. | Very good. |
| Newport— | | | |
| Stathen, Cosier & Co. | Discharge five girls | Complied with. | Very good. |
| Cedarville— | | | |
| John E. Diament 2 | Discharge twelve girls; box large pulley and belt on engine | Complied with. | Very good. |
| W. L. Stevens | Discharge three girls | Complied with. | Very good. |
| Woodbury— | | | |
| Hope Mfg. Co. 2 | Box counter-shaft and box saw belts. | Complied with. | Excellent. |
| Woodbury Glass Works | Discharge two boys | Complied with. | Good. |
| Gloucester County Glass Co. | Discharge one boy | Complied with. | Fair. |
| Williamstown— | | | |
| Bodine, Thomas & Co. 3 | Guard elevator; whitewash buildings; clean and whitewash privies | Complied with. | Good. |
| Salem— | | | |
| Harry Lambert | Discharge four girls | Complied with | Good. |
| Jones & Ayars 2 | Box belt on conveyor; put gate between engine and tank; discharge four girls and two boys. | Complied with. | Good. |
| Chew & Billerback 1 | Box two driving belts; discharge four boys and two girls | Complied with. | Good. |
| William Morris 2 | Guard elevator; put rail on stairway in paint-room | Complied with. | Good. |
| Hiles & Hilliard | Discharge five girls and four boys | Complied with. | Good. |
| John Gayner 2 | Guard driving belt; clean and whitewash privies | Complied with. | Good. |

## REPORT OF ACCIDENTS—FIRST DISTRICT.

| LOCATION. | NAME. | NAME OF COMPANY. | NATURE AND RESULT OF ACCIDENT. |
|---|---|---|---|
| Vineland..... | Arthur Shinn..... | Dagget & Co..... | Thumb and index finger mashed on drying machine; were amputated. |
| Mays Landing.. | Lewis Peachy..... | Mays Landing Cotton Mills | Hand crushed in spinning machine. |
| Vineland..... | Joseph Borden.... | Tillier Bros.' Glass Works.. | Cut by piece of hot glass. |
| Gloucester..... | John Osborn..... | Walsbach Incandescent Co. | Piece of timber fell on him and fractured his skull. |
| " ..... | John Snap..... | Gloucester Iron Co ..... | Burned with hot iron, and died of lockjaw. |
| Elmer .. ..... | Willie Robinson.. | Collings Spindle Works..... | Left arm caught in belt and broken. |
| Camden .. ..... | Jno. Killian ..... | Keystone Chemical Co ..... | Arm caught in gearing of burr mill; mashed in such a manner that amputation was necessary. |
| " ..... | James Smith..... | Vansciver & Co..... | Fell down elevator shaft; broke leg and two ribs. |
| " ..... | E. Shround..... | Camden Iron Works..... | Fell overboard while rolling pipe on wharf, and was drowned. |
| " ..... | R. Mathues..... | " " " ..... | Feet burned with hot iron. |
| " ..... | Joseph Huble..... | " " " ..... | Finger crushed in gear wheels; was amputated. |
| " ..... | Frank Weis..... | " " " ..... | Rolling pipe on wharf, both legs got caught and were broken. |
| Bridgeton..... | David Ayers..... | Cumberland Nail and Iron Works..... | Pipe caught clothing while in cutting machine; was injured in the groin. |

# SECOND DISTRICT.

*L. T. Fell, Inspector:*

SIR—I herewith submit my annual report as Deputy Inspector of the Second District for the year ending October 31st, 1890.

The Second District consists of Burlington county north of Beverly, Mercer county, Hunterdon county, Warren county, Sussex county, and Morris county west of Boonton. The work in this district has been of a routine character, and very little opposition has been encountered in the enforcement of the factory laws. Almost every order given has been complied with, and manufacturers generally are willing to act in accordance with the law, and the results have been most gratifying. The same cannot be said of the Compulsory Education law, which is among the most important which we are called upon to enforce. There seems to be a feeling of indifference existing in some of the municipalities about the enforcement of this law, and little or no assistance is given the department from this source. The Board of Police Commissioners of the city of Trenton have been communicated with, calling their attention to the law and asking their co-operation in the enforcement of its provisions, but no action has been taken by them on the subject.

The only matter which I desire to specially mention is the numerous violations of the seventh section of the General Factory act, which prohibits the employment of children under sixteen years of age more than ten hours per day. While the violations were numerous, yet in every instance, when the attention of the employers was called to it, they immediately ceased to violate the law, and there has been no cause for further complaint, although in one instance twenty children under sixteen years were being employed.

In addition to the factories where ten or more persons are employed, which are enumerated in the Appendix, numerous small factories in which less than ten persons are employed have also been inspected, the number of inspections of the several factories varying from one

to eight, the factories employing the largest number of children receiving the most attention.

There have been eleven permits granted to orphan children under the legal age to work in factories, and one permit granted last year revoked.

Yours respectfully,

JOHN D'ARCY,
*Deputy Inspector, Second District*

## FACTORIES INSPECTED—SECOND DISTRICT.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Trenton | The Ceramic Art Co | Beleek china, &c | 18 | 8 | 1 | ..... |
| " | Hamilton Rubber Co | Rubber hose and packing | 100 | ..... | ..... | ..... |
| " | Pope & Lee | China decorators | 15 | 7 | 1 | ..... |
| " | Swann & Whitehead | Lamps | 125 | 100 | 40 | 2 |
| " | Dean Decorating Co | China decorators | 15 | 25 | 4 | ..... |
| " | Eagle Pottery Co | Pottery | 100 | 60 | 12 | ..... |
| " | Trenton Spring Mattress Co | Spring mattresses | ..... | ..... | ..... | ..... |
| " | Phœnix Iron Co | Structural iron | 200 | ..... | ..... | ..... |
| " | Trenton Vise and Tool Co | Tools | 80 | ..... | ..... | ..... |
| " | Davis Soap and Chemical Co | Soap and candles | 10 | ..... | ..... | ..... |
| " | Capitol Cracker Co | Crackers | 12 | .... | 3 | ..... |
| " | Bloom & Godley | Mattresses and bedding | 25 | 10 | 3 | ..... |
| " | Cole & Stoll | " " | 8 | 2 | ..... | ..... |
| " | Trenton Watch Co | Watches | 25 | 30 | ..... | ..... |
| " | Zimri West | Crackers | 12 | 2 | ..... | 4 |
| " | Equitable Pottery Co | Sanitary pottery | 115 | 11 | 3 | ..... |
| " | John Watson | Machinery | 38 | ..... | ..... | ..... |
| " | Jos. Crossley | " | 25 | ..... | ..... | ..... |
| " | Peter Wilkes | " | 32 | ..... | ..... | ..... |
| " | Wm. Thropp | Steam engines | 20 | ..... | ..... | ..... |
| " | Murray, Whitehead & Murray | Rubber shoddy | 25 | ..... | 2 | ..... |
| " | Whitehead Bros | Rubber hose and packing | 50 | ..... | 1 | ..... |
| " | Thos. Maddock & Sons | Sanitary ware | 275 | 75 | 13 | 1 |
| " | John Moses | Pottery | 225 | 45 | 20 | 4 |
| " | Greenwood Pottery | Vitrified china | 200 | 40 | 10 | ..... |
| " | Trent Tile Co | Glazed tile | 110 | 40 | 9 | 1 |
| " | Providential Tile Co | " " | 40 | 18 | 2 | 1 |
| " | Fell & Baker | Bricks | 60 | ..... | 10 | 1 |
| " | Fell & Heil | " | 125 | ..... | 14 | ..... |
| " | Fell & Heath | " | 90 | ..... | 10 | 1 |
| " | H. C Kafer & Co | " | 90 | ... | 8 | 2 |
| " | H. H. Garwood | Shoes | 20 | 16 | 2 | ..... |
| " | Donohue & Nolan | Bricks | 100 | ..... | 12 | 3 |
| " | B. F. Walton | " | 120 | ..... | 10 | 1 |
| " | Applegate & Co | " | 100 | ... | 8 | 1 |
| " | Operative Pottery Co | Pottery | 30 | 11 | 4 | ..... |
| " | Trenton Rubber Co | Rubber hose and packing | 175 | .... | ..... | ..... |
| " | E. Darlington Decorating Co | China decorators | 3 | 9 | 1 | ..... |
| " | International Pottery Co | Pottery | 165 | 25 | 7 | 2 |
| " | Fell & Roberts | Bricks | 100 | ..... | 11 | 4 |
| " | W. C. Hendrickson & Co | China decorators | 15 | 20 | 3 | ..... |
| " | H. Leigh | Paper boxes | 3 | 20 | 3 | ..... |
| " | John E. Thropp | Machinery | 50 | ..... | ..... | ..... |
| " | Chas. W. Donaghue | Pottery stilts | 3 | 7 | 3 | 1 |
| " | Enterprise Pottery Co | Sanitary pottery | 120 | 15 | 2 | ..... |
| " | Israel Lacy | Pottery | 165 | 35 | 12 | 1 |
| " | East Trenton Pottery Co | " | 110 | 40 | 9 | ..... |
| " | John O'Dowd | " stilts | 12 | 6 | 3 | 2 |
| " | Trenton Oil Cloth Co | Oil cloth | 35 | ..... | 5 | 1 |
| " | Fisher & Norris | Anvils | 50 | ..... | ..... | ..... |
| " | Trenton China Co | Vitrified china | 90 | 30 | 8 | 1 |
| " | O. O. Bowman & Co | Terra cotta and fire-brick | 60 | ..... | ..... | ..... |
| " | N. J. Steel and Iron Co | Structural iron | 900 | ..... | ..... | ..... |
| " | Alpaugh & Magowan | Sanitary pottery | 160 | 60 | 3 | ..... |
| " | W. Kimble | Vitrified china | 10 | 15 | 2 | ..... |
| " | Star Rubber Co | Rubber hose and packing | 175 | ... | 4 | ..... |
| " | Mercer Pottery Co | Pottery | 160 | 90 | 25 | 3 |
| " | Home Rubber Co | Rubber hose, &c | 85 | 15 | 1 | ..... |
| " | Trenton Iron Co | Wire | 850 | ..... | 2 | ..... |
| " | Duncan McKenzie | Machinery and boilers | 75 | ..... | ..... | ..... |
| " | N. J. Agricultural Co | Agricultural implements | 20 | ..... | ..... | ..... |

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## FACTORIES INSPECTED—SECOND DISTRICT—Continued.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Trenton | American Saw Co. | Saws | 75 | ..... | ..... | ..... |
| " | Dibble Mfg. Co | Hemacite goods | 35 | ..... | ..... | ..... |
| " | Ott & Brewer | Pottery | 210 | 90 | 20 | 3 |
| " | Dale & Davis | " | 115 | 40 | 10 | ..... |
| " | Oliphant & Co. | Sanitary pottery | 190 | 15 | ..... | ..... |
| " | J. A. Roebling's Sons | Wire | 1400 | 100 | 40 | 1 |
| " | N. J. Wire Cloth Co | Wire cloth | 70 | 80 | ..... | ..... |
| " | S. K. Wilson (Factory St) | Woolens | 275 | 450 | 70 | 6 |
| " | S. K. Wilson (Fair St.) | Woolens and worsted yarns | | | | |
| " | J. S. Thorn | Crackers | 21 | ..... | 7 | ..... |
| " | A. Golding & Sons Co. | Ground flint and spar | 35 | ..... | ..... | ..... |
| " | B. W. Titus' Sons | Flannels | 90 | 60 | 13 | 1 |
| " | N. J. Match Co. | Matches | 15 | 75 | 20 | 3 |
| " | Crescent Pottery Co. | Sanitary pottery ware | 250 | 50 | 10 | 1 |
| " | Adam Exton & Co. | Crackers | 50 | ..... | 25 | 3 |
| " | N. J. School and Church Furniture Co. | School and church furniture. | 45 | ..... | ..... | ..... |
| " | Fell & Throp Pottery Co. | Pottery | 130 | 15 | 10 | 2 |
| " | W. H. Tatler Decorating Co. | China decorators | 12 | 17 | 5 | ..... |
| " | Trenton Woolen Co. | Woolens | 50 | 60 | 8 | 1 |
| " | Jos. Mayer Pottery Co. | Majolica ware | 65 | 30 | 7 | ..... |
| " | Brook, Oliphant & Co. | Rubber hose and packing | 80 | ..... | 1 | ..... |
| " | Geo. W. Davis | Locks and hardware | 20 | ..... | 3 | ..... |
| " | Skillman Hardware Co. | " " | ..... | ..... | ..... | ..... |
| " | G. H. Stevenson & Son | Sash and blinds | 25 | ..... | ..... | ..... |
| " | Trenton Cracker Co. | Crackers | 20 | ..... | 4 | ..... |
| " | Willetts Mfg. Co. | Sanitary pottery | 200 | 50 | 10 | 1 |
| " | Trenton Rubber Valve and Spring Co. | Rubber goods | 12 | ..... | 1 | ..... |
| Lambertville | Lambertville Spoke Mfg. Co. | Spokes, hubs and wheels | 90 | ..... | ..... | ..... |
| " | Ben Frazer | Shoes | 13 | 9 | ..... | ..... |
| " | Chadwick Copying Book Co. | Copying books | 6 | 9 | 1 | ..... |
| " | O'Brien Bros. & Co. | Paper | 25 | ..... | ..... | ..... |
| " | Wm. Mann & Co. | " | 13 | 9 | ..... | ..... |
| " | Lambertville Rubber Co. | Rubber goods | 100 | 40 | 2 | ..... |
| " | J. C. Weeden & Co. | Paper | 15 | 5 | ..... | ..... |
| Flemington | Fulper Bros. | Stone ware | 15 | ..... | 2 | ..... |
| " | —— Williamson | Baskets | ..... | ..... | ..... | ..... |
| Bordentown | Jacob Miller's Sons Co. | Shirts | 5 | 195 | 1 | ..... |
| " | W. R. Flynn & Co. | Collars and cuffs | 5 | 25 | 2 | ..... |
| Hamilton Square | Mercer Rubber Co. | Rubber goods | 50 | ..... | 3 | ..... |
| Port Oram | Ross & Baker | Silk | ..... | ..... | ..... | ..... |
| Burlington | Rogers & Bro. | Shoes | 18 | 12 | ..... | ..... |
| " | R. T. Wood & Co. | " | 75 | 75 | 4 | ..... |
| " | G. W. Lewis & Son | " | 50 | 50 | 4 | ..... |
| " | Isaac S. Kimble | " | 11 | 11 | 1 | ..... |
| " | W. B. Bunting Est. | " | 74 | 38 | 7 | 1 |
| " | J. L. Wilson & Co. | " | 8 | 4 | ..... | ..... |
| " | G. Y. Van Sciver | " | 31 | 14 | 1 | 1 |
| " | H. Lippincott | " | Refused | | ..... | ..... |
| " | C. B. Spencer | " | 33 | 17 | 1 | ..... |
| " | J. Lippencott | " | 8 | 8 | 2 | ..... |
| " | G. A. Latta | " | 22 | 13 | 1 | ..... |
| " | Wm. Adams | " | 30 | 20 | 2 | ..... |
| " | J. F. Budd | " | 100 | 75 | 3 | ..... |
| " | G. R. Apple | Drain pipe | 12 | 12 | ..... | ..... |
| " | Burlington Iron Co. | Iron castings | 35 | ..... | ..... | ..... |
| " | John Stokley | Shoes | 25 | 15 | 1 | ..... |
| Groveville | Morris Bros. | Cotton duck | 70 | 70 | 26 | 6 |
| Yardville | James Vogst | " batting | 8 | 6 | 1 | ..... |
| Phillipsburg | Standard Silk Co. | Silk | 150 | 225 | 30 | ..... |
| " | Warren Foundry and Machine Co. | Cast iron pipe | 400 | ..... | ..... | ..... |

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## FACTORIES INSPECTED—SECOND DISTRICT—Continued.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Phillipsburg | Phillipsburg Stove Co. | Stoves | 40 | ..... | ..... | ..... |
| " | American Sheet Iron Co. | Sheet iron | 75 | ..... | ..... | ..... |
| " | T. P. Howe | Bar iron | 90 | ..... | ..... | ..... |
| Washington | Cornish & Co | Organs | 70 | 5 | ..... | ..... |
| " | C. P. Bowlby | " | 25 | ..... | ..... | ..... |
| " | H. W. Alleger | " | 35 | ..... | ..... | ..... |
| " | The Beethoven Organ and Piano Co. | " | 125 | 5 | 1 | ..... |
| Rockaway | C. H. Wilcox | Cardigan jackets | 20 | 45 | 10 | ..... |
| Newton | Sussex Shoe Co | Shoes | 70 | 30 | 3 | ..... |
| " | H. W. Merriman Shoe Co. | " | 220 | 125 | 12 | ..... |
| Dover | Geo. Singleton | Silk | 62 | 95 | 39 | 3 |

## CHANGES ORDERED AND CONDITION OF FACTORIES—SECOND DISTRICT.

| LOCATION AND NAME OF COMPANY. | CHANGES ORDERED. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|
| Trenton— | | | |
| Trenton Woolen Co. | | Complied with | Fair. |
| Jos. Mayer Pottery Co. | Guard belt in slip-house | Complied with | Fair. |
| Brook, Oliphant & Co. | Guard mill gearing and elevator | Complied with | Good. |
| Skillman Hardware Mfg. Co. | Ventilate plating-room; guard belt in polishing-room | Moved out of building | |
| Willetts Mfg. Co. | | | Fair. |
| Trenton Rubber Valve and Spring Co. | Guard gearing of grinders | Complied with | Good. |
| Lambertville— | | | |
| Lambertville Spoke Mfg. Co. | | Complied with | Good. |
| O'Brien Bros. | Guard belt of beater | Complied with | Good. |
| Lambertville Rubber Co. | | Complied with | Good. |
| Burlington— | | | |
| Rogers & Bro. | Repair stairway | Complied with | Fair. |
| G. W. Lewis & Son. | Put fire-escape in condition | | Good. |
| W. B. Bunting Est. | Put up fire-escape | | Good. |
| J. L. Wilson & Co. | Guard coupling on shaft | Complied with | Good. |
| H. Lippencott | Repair stairway | | Bad. |
| Trenton— | | | |
| East Trenton Pottery Co. | | | Fair. |
| Trenton Oil Cloth Co. | Guard belt in stock-room; guard gearing of calenders | Complied with | Fair. |
| Trenton China Co. | | | Good. |
| Alpaugh & Magowan | | | Good. |
| Star Rubber Co. | Guard gearing of grinders | | Good. |
| Mercer Pottery Co. | | Complied with | Fair. |
| Home Rubber Co. | | Complied with | Fair. |
| Ott & Brewer | | Complied with | Fair. |
| Dale & Davis | | | Good. |
| Oliphant & Co. | | | Good. |
| J. A. Roebling's Sons | Guard fly-wheel of engine | Complied with | Fair. |
| N. J. Wire Cloth Co. | Guard elevator opening | Complied with | Good. |
| S. K. Wilson (Factory St.) | Guard belt in machine shop; swing all doors outward | Partially complied with | Fair. |
| B. W. Titus' Sons | | Complied with | Fair. |
| J. S. Thorn. | Guard gearing of rollers | Complied with | Good. |
| N. J. Match Co. | | Complied with | Good. |
| Crescent Pottery Co. | | | Good. |
| N. J. School and Church Furniture Co. | Guard elevator opening | Complied with | Good. |
| Fell & Throp Pottery Co. | | Complied with | Fair. |
| Ceramic Art Co. | | | Good. |
| Hamilton Rubber Co. | | Complied with | Fair. |
| Pope & Lee | | | Good. |
| Swann & Whitehead | | | Fair. |
| Dean Decorating Co. | | Complied with | Fair. |
| Eagle Pottery Co. | | Complied with | Good. |
| Bloom & Godley | | | Good. |
| Trenton Watch Co. | | Complied with | Good. |
| Equitable Pottery Co. | | | Good. |
| Murray, Whitehead & Murray | Guard gearing of grinder | Complied with | Good. |
| Whitehead Bros. | | | Good. |
| Thos. Maddock & Sons | Open stairway to top floor | | Good. |
| John Moses | | Complied with | Good. |
| Greenwood Pottery | | | Fair. |
| Trent Tile Co. | Guard elevator opening | Complied with | Good. |
| Providential Tile Co. | | | Good. |
| Operative Pottery Co. | | | Fair. |
| Trenton Rubber Co. | | | Good. |
| International Pottery Co. | | | Fair. |
| W. C. Hendrickson & Co. | Guard elevator opening | Complied with | Fair. |
| Enterprise Pottery Co. | Guard around stairway | Complied with | Good. |
| Israel Lacy | | | Fair. |

## REPORT OF ACCIDENTS—SECOND DISTRICT.

| LOCATION. | NAME. | NAME OF COMPANY. | NATURE AND RESULT OF ACCIDENT. |
|---|---|---|---|
| Trenton ..... | H. Eisenbach..... | Trenton Iron Co..... | Fell off an elevator; killed. |
| " ..... | —— Cheadle..... | J. A. Roebling's Sons..... | Burned with an iron rod from the rolls. |
| " ..... | Wm. Eisenbach..... | S. K. Wilson..... | Caught in a pulley while putting on a belt; killed. |
| " ..... | John Green..... | Trenton Woolen Co..... | Fell into a tub of hot dye while skylarking; died. |
| " ..... | Geo. Pauch..... | Thos. Maddock & Sons..... | Opened the door of an elevator shaft and walked into it; severely bruised. |
| Port Oram..... | Jas. Mitchell.... / Frank Duffey... | Hurd Mines..... | Killed by fall of ground in drift. |
| Hibernia ..... | John Dowd..... | Andover Mines..... | Killed by fall of ground from hanging wall. |
| " ..... | Mich'l Dempko / Jas. Kheily..... | " " ..... | Killed while riding out of mines on a car; this is prohibited. |

# COMPULSORY EDUCATION.

Inspector D'Arcy, of New Jersey, read before the Convention the following paper on "Compulsory Education:"

MR. PRESIDENT, LADIES AND GENTLEMEN OF THE CONVENTION —The statement that education is the chief safeguard of our liberties has become a platitude, from oft repetition. Every intelligent mind recognizes the fact that the beneficence, wisdom and purity of our law-making bodies fluctuates with the intellectual status of the people; that the prevalence of education is a bulwark against which the seas of corruption may beat in vain; and that where ignorance holds sway, corruption flourishes in all forms. For the intelligent man is an intelligent voter, incapable of being intimidated or influenced in the exercise of his right of franchise. The intelligent voter elects the intelligent legislator, and the intelligent legislator knows that his preference depends upon his honesty, and his acts are in accordance therewith. This being true the necessity of educating the masses becomes apparent.

In the early stages of our history the only difficulty to be overcome in diffusion of knowledge was the lack of educational advantages. In a new country whose heterogeneous population had ever and only before them the acquisition of wealth and untrammeled freedom, it is but a small wonder that we find few school-houses and fewer capable instructors. But what was lacked in knowledge was supplied in zeal for its acquisition, and in a short time, through the untiring diligence of our forefathers, and their wise legislative enactments, compelling every township to support a school, our country became dotted with these strongholds of intelligence and morality. But an increase in the population of our country brought with it changed conditions of life.

The early settlers of our country were engaged principally in agricultural pursuits. To such a people the winter was a season of forced

inactivity, and this opportunity of educating the children was not neglected by the provident farmer. But in the growth of our country came diversified interests; manufacturing in all its forms engaged the attention of our people, and as a necessary evil, which inevitably accompanies a dense population, the struggle for existence was aggravated. Every nerve and sinew must be strained in our large cities to hold together the soul and body, and thus a premium is placed on child labor. The winter was no longer a season of respite from toil, but summer and winter alike the never-ceasing struggle for the means of subsistence must be kept up. The little mite that the children can earn is magnified by poverty, and the advantages of an education on the other hand are entirely lost sight of.

As we have seen in the agricultural period of our history the only inducement necessary to the spread of education was the diffusion of school-houses. Willingly did the farmer of the early part of the nineteenth century send his children during the winter months to the district school, but the mechanic of the latter half needs some further inducement than the mere erection of a school-house within his sight. What shall it be?

The Legislature of New Jersey made an effort to solve the question in 1885, when they had enrolled upon the statute-books the Compulsory Education law.

We say made an effort, because in some of the large cities of New Jersey the municipal authorities failed to furnish adequate accommodations to educate the children; they thus have the effect of nullifying the law, and to-day it lies upon our statute-books a dead letter, as a general compulsory education law, for it depends solely on the municipality, the opportunity of enforcing the law.

We need the enforcement of this law for several good and efficient reasons. The first and primary one is the safety of our government requires it. It is no chimerical fantasma that leads men to say that education is a protection against political corruption. It is a hard and fast fact; go to any of the polls in your city during an election, and you will have ample evidence of the truth of this statement. It is not the educated voter whom you will see casting his vote at the dictates of others, but the illiterate, whose pride and honor of the right of franchise he values not. But leaving out this argument there are still left better reasons for the enforcement of the law. Morality demands it. The man who, during his youth, has been

forced to grind the vitality out of his young life, becomes warped and narrow, his intellect is bounded by the walls between which he labors, his associates are of the same character, and his animal nature predominates, and, as a result, he becomes a vicious and dangerous citizen. There are exceptions to this rule, but they merely give force to the argument by contrast. They crowd our jails and prisons, they make our drunkards and criminals of all grades. Their ideas of the law and of obedience to it, would be laughable if they were not so dangerous.

The enforcement of the Compulsory Education law, however, would not be a panacea for all the ills and crimes; to claim so much for it would be folly. But if illiterates compose the majority of our criminals, would not a proper educational law strictly enforced materially lessen the calendars of our criminal courts?

Then, again, we are enforcing the Child-labor law, we are turning the children out of the factories who are too young to work, and by the non-enforcement of the Educational law we throw them on the streets, which hastens the spread of crime among minors, and paves the way for a life of lawlessness and vice. These are only a few of the many arguments in favor of the enforcement of compulsory education laws, but they are general in their character.

Let us consider the objections that are held by some to the enforcement of such a law. It is not practicable to enforce it. What is there impracticable about it? True, it is impracticable and impossible to compel a child to attend school if you have no school for him to attend. But with ample facilities there is not the slighest flavor of impracticability about the law.

The provision of proper school facilities for the education of our children should be imposed upon us whether we enforce the law or not.

It is true the enforcement of the law will necessitate the increasing of the school facilities, thus increasing the cost of maintaining the school system, but is this not just; if provision is to be made for the free education of one child, does not impartial justice demand that we provide for the education of all? Are we to discriminate between one child and another? It would be tyranny of the worst type to erect a school-house in which only one-half of the children of the district could be educated, while the other half would grow up in ignorance and vice. If education is to be free, let all be educated, both the willing and obdurate.

The provision of adequate schools and the enforcement of the compulsory education laws will inevitably result is a higher standard of intelligence and morality among our youth, and aid in the work of governing our great republic, since it would improve the standard of our population.

# THIRD DISTRICT.

ELIZABETH, N. J., December 3d, 1890.

*L. T. Fell, Esq., Chief Factory Inspector:*

DEAR SIR—I herewith respectfully submit my annual report for the year ending October 31st, 1890, comprising the counties of Monmouth, Middlesex, Somerset and Union.

Changes ordered and complied with during the year, eighty-five; number of children discharged, eighty-four; number of permits granted to orphan children, nineteen; number of accidents, nine.

Respectfully submitted,

FRANCIS SAYRE,
*Deputy Factory Inspector.*

## FACTORIES INSPECTED—THIRD DISTRICT.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Woodbridge | Salamander Works | Fire brick | 72 | | 8 | 4 |
| " | Wm. H. Barry | Brick | 45 | | 6 | |
| " | Vallentine Bros. | Fire brick | 50 | | 6 | 1 |
| " | Spa Spring Brick Works | Building brick | 200 | | 4 | |
| " | Anniss & Lyle Mfg. Co. | Tile and fire brick | 200 | | 16 | 1 |
| " | Boynton & Co. | Tile and brick | 40 | | | |
| Tremley | Standard Chemical Co. | Chemicals | 175 | | | |
| " | Carteret Brick Works | Building brick | 35 | | 2 | |
| " | Standard Fertilizer Works | Fertilizer | 50 | | | |
| South Amboy | Swan Hill Pottery | Stone ware | 40 | 8 | 7 | 2 |
| " " | South Amboy Tile Co. | Tile | 27 | 1 | | |
| Sayreville | Moses Higbie | Refining asphalt | 43 | | 2 | |
| " | Sayre & Fisher & Co. | Brick | 700 | | 4 | |
| " | Wm. F. Fisher & Co. | " | 260 | | | |
| " | E. A. & C. W. Fisher | " | 60 | | 4 | |
| Spottswood | Hoblinger & Dizian | Shirts | 14 | 40 | 3 | 1 |
| South River | John Whitehead & Co. | Brick | 60 | | | |
| " " | Mark Davison & Co. | Shirts | 6 | 24 | | |
| " " | Herman Aukman & Co. | Handkerchiefs | 100 | 300 | 26 | 8 |
| " " | Thomas Willett & Co. | Bricks | 110 | | | |
| Rahway | Gordon Press Works | Printing presses | 30 | | | |
| " | Henry Rosenbaum | Shirts | 50 | 125 | 20 | 2 |
| " | William L. Mershon | Printing | 105 | 35 | | |
| " | William L Mershon | " | 48 | 12 | 2 | |
| " | Laforge Wheel and Spoke Works | Wheels and spokes | 20 | | | |
| " | Housman & McManus | Carriages | 12 | | | |
| " | Charles Grube | " | 20 | | | |
| " | Howard & Co | Dye works | 9 | | | |
| " | Williams S Pickering | Carriages | 15 | | | |
| " | E. Graves & Co. | " | 12 | | | |
| " | Frederick Eyer | " | 10 | | | |
| " | Van Campen & Bros. | Novelties | 40 | 50 | 5 | 2 |
| " | D. B. Dunham & Co | Carriages | 50 | | | |
| " | Taylor & Bloodgood | Tar paper | 170 | 30 | 4 | |
| " | Johnson R. R. Signal Co. | Railroad signals | 40 | | 1 | |
| Raritan | Raritan Woolen Mills | Woolen goods | 410 | 150 | 32 | 2 |
| " | Somerset Mfg. Co. | " " | 285 | 75 | 40 | 1 |
| " | Kenyon Bros. | Machinery | 40 | | | |
| " | R. Vegte | Flour and feed | 13 | | | |
| " | William McNair & Co. | Paints | 10 | | | |
| Red Bank | C. C. Reagles | Billiard balls | 9 | | | |
| " " | L. P. Conklin | Sash and blinds | 12 | | | |
| " " | J. Broadmeadow | Canned goods | 22 | 35 | 13 | 5 |
| " " | C. L Davis | Sash and blinds | 13 | | | |
| " " | J. W. Mount & Bros. | Carriages | 13 | | | |
| " " | J. W. Stout | Canned goods | 75 | 100 | 8 | 4 |
| " " | Rogers & Walling | Carriages | 10 | | | |
| " " | E. R. Roberts | Safety boilers | 20 | | | |
| " " | John Whitehead & Co. | Bricks | 60 | | | |
| " " | G. T. Hook | Sash and blinds | 16 | | 1 | |
| " " | Root & Gibben | " " | 8 | | | |
| " " | John N. Hoffmeyer | " " | 10 | | | |
| " " | James Walsh | " " | 8 | | | |
| " " | American Mfg. Co. | Billiard balls | 9 | | | |
| Perth Amboy | Henry Maurer & Son | Fire brick | 190 | | 9 | |
| " " | Amboy Terra Cotta Works | Terra cotta ware | 400 | | 4 | |
| " " | Arthur Buel & Co. | Paris white chalk | 25 | | 1 | |
| " " | United Refiners and Export Co | Oil refinery | 75 | | 2 | |
| " " | Henry White | Foundry | 14 | | | |
| " " | Rosseler & Hassbacker | Chemicals | 16 | | 2 | |
| " " | Ashland Emery Co. | Emery paper | 20 | | | |
| " " | Thomas Lingley | Machinery | 15 | | | |

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## FACTORIES INSPECTED—THIRD DISTRICT—Continued.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Perth Amboy | Raritan Power Co. | Pressed brick | 125 | ..... | 4 | 1 |
| " " | John Hornsby & Co. | Fire brick | 35 | ..... | 5 | 1 |
| " " | William King | Corks | 17 | ..... | ..... | ..... |
| " " | Mathiason & Hansen | Terra cotta ware | 45 | ..... | 2 | ..... |
| " " | Gleason & Co. | Machinery | 21 | ..... | ..... | ..... |
| Plainfield | Van Deventer & Co. | Carpets | 10 | 45 | 4 | ..... |
| " | Pond Tool Co | Tools | 400 | ..... | 4 | ..... |
| " | Potter Printing Press Works | Printing presses | 220 | ..... | 4 | ..... |
| " | Walter Scott & Co. | " " | 160 | ..... | 2 | ..... |
| " | Central Company | Table oil cloth | 60 | ..... | 2 | ..... |
| New Brunswick | Consolidated Fruit Jar Co. | Fruit jars | 302 | 48 | 13 | ..... |
| " " | New Jersey Lamp and Bronze Co. | Bronze goods | 73 | 7 | 1 | ..... |
| " " | Janeway & Co. | Wall paper | 150 | ..... | 3 | ..... |
| " " | New Jersey Rubber Co. | Rubber shoes | 250 | 250 | 31 | 1 |
| " " | Washington Rubber Co. | " goods | 254 | 149 | 1 | ..... |
| " " | Janeway & Carpenter | Wall paper | 223 | 27 | 13 | 2 |
| " " | Adam Green | Earthen ware | 15 | ..... | ..... | ..... |
| " " | George Butler & Sons | Sash and blinds | 42 | ..... | ..... | ..... |
| " " | Cranke & Voorhees | " " | 37 | ..... | ..... | ..... |
| " " | John Guible | Shoes | 17 | ..... | ..... | ..... |
| " " | J. B. Archer & Co. | " | 18 | 7 | 1 | ..... |
| " " | J. Messrole | Shirts | 75 | 18 | 1 | ..... |
| " " | Norfolk and N.B. Hosiery Co. | Knit goods | 300 | 500 | 40 | 12 |
| " " | L. J. Ives & Co. | Machine needles | 50 | ..... | ..... | ..... |
| " " | Johnson & Johnson | Medicinal plasters | 50 | 90 | 4 | 1 |
| " " | Middlesex Shoe Co. | Shoes | 97 | 53 | 4 | ..... |
| " " | S. B. Vannise | Carriages | 10 | ..... | ..... | ..... |
| " " | J. D. Watson & Co. | Paints | 8 | ..... | ..... | ..... |
| " " | F. Felter & Co. | Shoes | 48 | 28 | 2 | ..... |
| " " | C. Hingher & Son | Pearl buttons | 75 | 25 | 4 | ..... |
| " " | Rob't Flieder | Paper boxes | 14 | 12 | ..... | ..... |
| " " | Mosquito Netting Co. | Mosquito netting | 15 | ..... | ..... | ..... |
| " " | C. L. Davis & Co. | Cigars | 5 | 145 | ..... | ..... |
| Manasquan | Wm. B. Taylor | Sash and blinds | 10 | ..... | ..... | ..... |
| " | Thomas Vahn | Shirts | 2 | 34 | 1 | ..... |
| " | R. V. Van Shoick | Sash and blinds | 12 | ..... | ..... | ..... |
| " | Wm. M. Stout & Son | Canned goods | 10 | 20 | 7 | 3 |
| " | D. B. Wyckoff & Sons | Flour and feed | 36 | ..... | ..... | ..... |
| Milltown | Meyer Rubber Co. | Rubber boots and shoes | 250 | 200 | 12 | 6 |
| Matawan | J. L. Rue | Sash and blinds | 40 | ..... | ..... | ..... |
| " | R. C. Winters | Horse collars | 16 | ..... | ..... | ..... |
| " | Dunn & Dunlap | Earthen ware | 32 | 16 | 3 | ..... |
| " | Wm. D. Bailey | Sash and blinds | 10 | ..... | 1 | ..... |
| " | Bushnell & Co. | Brick | 60 | ..... | ..... | ..... |
| " | T. M. Antesell & Co. | Pianos | 25 | ..... | ..... | ..... |
| Menlo Park | Ceramic Works | Volkmar tile | 18 | 3 | ..... | ..... |
| Long Branch | Peddington Bros. | Sash and blinds | 11 | ..... | ..... | ..... |
| " " | L. D. Edwards | " " | 120 | ..... | 2 | ..... |
| " " | John M. Davis | Stair builder | 11 | ..... | 1 | ..... |
| " " | C. D. Reid & Co. | Carriages | 14 | ..... | ..... | ..... |
| Linden | Lion Silk Mfg. Co | Silk goods | 20 | 26 | 6 | ..... |
| Little Silver | E. G. Hazard & Co. | Catsup | 50 | 30 | 6 | 2 |
| Keyport | Tillton & Cherry | Carriages | 14 | ..... | ..... | ..... |
| " | C. B. Bucklin | Canned goods | 25 | 100 | 9 | 5 |
| " | Jacob Lorillard | Bricks | 350 | ..... | 4 | 1 |
| " | Keyport Brick Tile Mfg. Co. | " | 40 | ..... | ..... | ..... |
| Jamesburg | Wm. H. Martin | Shirts | 2 | 45 | ..... | ..... |
| " | Middlesex Mfg. Co. | " | 4 | 32 | ..... | ..... |
| " | State Reform School | ..... | 320 | ..... | 215 | ..... |
| " | Downs & Finch | Shirts | 100 | 125 | 3 | ..... |
| Helmetta | G. W. Helm & Co | Tobacco and snuff | 152 | 46 | 6 | ..... |
| Freehold | Henry Rothild. | Shirts | 150 | 200 | 10 | 2 |

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## FACTORIES INSPECTED—THIRD DISTRICT—Continued.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Freehold | J. W. Allen | Cigars | 3 | 9 | ..... | ..... |
| " | Holmes & Bowden | Machinery | 48 | 3 | ..... | ..... |
| " | Stokes Bros. | Files | 25 | ..... | ..... | ..... |
| " | Jos. Blakely | Canned goods | 50 | 75 | 8 | ..... |
| " | Wm, Curley | Laundry | 8 | 12 | 1 | ..... |
| Elizabeth | Washington Rubber Works | Rubber goods | 28 | 50 | 2 | ..... |
| " | Peter Briedt | Brewery | 28 | ..... | ..... | ..... |
| " | Patrick Sheridan | Planing mill | 14 | ..... | ..... | ..... |
| " | Charles Forsyth | Drain pipe | 14 | ..... | ..... | ..... |
| " | City Flour Mills | Flour and feed | 12 | ..... | ..... | ..... |
| " | Pacific Rubber Co. | Rubber goods | 8 | 36 | 1 | ..... |
| " | Chas. Miller & Co. | Hardware | 11 | ..... | ..... | ..... |
| " | Elizabeth Nickel Plating Co. | Novelties | 10 | ..... | ..... | ..... |
| " | Lambert Machine Works | Machinery | 16 | ..... | ..... | ..... |
| " | J. S. Waddell | Plumbing supplies | 9 | ..... | ..... | ..... |
| " | D. B. Churchill | Shirt manufacturing | 4 | 51 | 4 | 3 |
| " | Union Oil Cloth Co | Oil cloth | 17 | 1 | ..... | ..... |
| " | A. & F. Brown | Machinery | 114 | ... | ..... | ..... |
| " | Elizabeth Cordage Works | Rope and twine | 300 | 200 | 16 | 2 |
| " | Heywood & Co. | Clothing | 8 | 32 | 3 | 2 |
| " | Isaac Worrall | Machinery | 13 | ..... | ..... | ..... |
| " | Samuel L. Moore & Sons | " | 225 | ..... | ..... | ..... |
| " | William H. Rankin | Felt roofing | 16 | ..... | ..... | ..... |
| " | G. M. Graft & Co. | Stoves | 44 | ..... | ..... | ..... |
| " | Elizabeth Oil Cloth Co | Table oil cloth | 205 | ..... | 2 | ..... |
| " | Eugene Munsell & Co. | Stoves | 100 | ..... | ..... | ..... |
| " | William O. Smith | Shears | 9 | ..... | ..... | ..... |
| " | Rising Sun Brewing Co. | Brewery | 22 | ..... | ..... | ..... |
| " | L. B. Beerbower & Co. | Pottery | 100 | 18 | 16 | 3 |
| " | N. J. Dry Dock Planing Mill | Planing mill | 75 | ..... | ..... | ..... |
| " | New York Fire-Proof Paint Co. | Paints | 10 | ..... | ..... | ..... |
| " | Borne, Scrymser & Co. | Oil refining | 125 | ..... | ..... | ..... |
| " | Bowker Fertilizer Co. | Fertilizer | 125 | ..... | ..... | ..... |
| " | New Jersey Extraction Works | Copper and silver | 100 | ..... | ..... | ..... |
| " | Singer Mfg. Co. | Sewing machines | 3400 | 300 | 200 | 4 |
| " | Central R. R. Shops | Car repairing | 500 | ..... | ..... | ..... |
| " | Thomas H. Smith | Hats | 12 | 37 | ..... | ..... |
| " | Joseph Blatz | Tannery | 60 | 3 | 3 | ..... |
| " | Frederick Artz | Toys | 1 | 18 | ..... | 3 |
| " | Zululave & Co | Shirts | 18 | 65 | 2 | 1 |
| " | E. J. Blakely & Co. | Foundry | 75 | ..... | ..... | ..... |
| " | Howson & Son | Stair building | 17 | ..... | ..... | ..... |
| " | American Gas Furnace Co. | Furnaces | 20 | ..... | ..... | ..... |
| " | Henry Rosenbaum | Shirts | 1 | 55 | 1 | ..... |
| " | B. & S Strauss | Carriages | 28 | ..... | ..... | ..... |
| " | Heidritter & Sons | Planing mill | 22 | ..... | ..... | ..... |
| " | Heidritter & Sons | Sash and blinds | 50 | ..... | ..... | ..... |
| " | William Earl | Canned goods | 8 | 40 | ..... | ..... |
| Carteret | Colwell Iron Works | Machinery | 148 | ..... | 4 | ..... |
| " | Williams, Clark & Co. | Fertilizer | 50 | 2 | 2 | ..... |
| " | Leibig Mfg. Co. | " | 80 | ..... | ..... | ..... |
| Bound Brook | Bound Brook Woolen Mills | Woolen goods | 185 | 90 | 11 | 1 |
| " " | Hickman Hose Coupling Co. | Gas fixtures | 51 | 18 | ..... | ..... |
| " " | Hartford Air-Pump Co. | Compressed air pumps | 32 | ..... | ..... | ..... |
| " " | Standard Paint Co. | Roofing paint | 17 | ..... | ..... | ..... |
| " " | Shackleton Car Heating Co. | Steam radiators | 50 | ..... | ..... | ..... |
| " " | W. W. Anderson | Planing mills | 12 | ..... | ..... | ..... |
| " " | W. H. Bache | Carriage and axle boxes | 16 | ..... | ..... | ..... |
| " " | American Paint Co. | Paints | 14 | ..... | ..... | ..... |
| Asbury Park | H. J. Rogers & Rogers | Sash and blinds | 35 | ..... | 2 | ..... |

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## CHANGES ORDERED AND CONDITION OF FACTORIES—THIRD DISTRICT.

| Location and Name of Company. | | Changes ordered. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|---|
| Woodbridge— | | | | |
| Salamander Works | 1 | Main shaft and elevator guarded | | Good. |
| Wm. Berry | 1 | All stairs and elevator guarded | | Good. |
| Valentine Bros | 1 | Fan and elevator guarded | | Good. |
| Boynton & Co | | | | Good. |
| Tremley— | | | | |
| Standard Chemical Co | 1 | Fly-wheel on grinding machine guarded | | Good. |
| Standard Fertilizer | | | | Good. |
| Sayreville— | | | | |
| Moses Higbie & Co | | | | Good. |
| Sayre & Fisher | 2 | One belt and fly-wheel guarded | | Good. |
| Wm. E. Fisher | 1 | Fly-wheel guarded | | Good. |
| E. A. & C. W. Fisher | | | | Good. |
| South River— | | | | |
| John Whithead | 1 | Fly-wheel guarded | | Good. |
| Mark & Davidson | 1 | Shafting guarded | | Good. |
| Herman & Aukurn | 1 | Shafting guarded | | Good. |
| Theo. Willet & Co | | | | Good. |
| Spottswood— | | | | |
| Hablinger & Dazian | 4 | Three main belts and shafting guarded | | Good. |
| South Amboy— | | | | |
| Swan Hill Pottery | | | | Good. |
| South Amboy Tile Works | | | | Good. |
| Raritan— | | | | |
| Raritan Woolen Mills | 2 | Two belts boxed | | Good. |
| Somerset Mfg. Co | | | | Good. |
| Kenyon Bros | | | | Good. |
| R. Vighte | 1 | Floor shafting guarded | | Good. |
| Wm. N. Adair | 3 | Three belts boxed | | Good. |
| Rahway— | | | | |
| Henry Rosenbaum | 1 | Shafting guarded | Done | Good. |
| W. L. Mershon | 1 | Fly-wheel guarded | Done | Good. |
| Gordon Press Works | | | | Good. |
| Laforge Wheel Works | | | | Good. |
| Taylor & Bloodgood | | | | Good. |
| Turner Mfg. Co | 1 | Shafting guarded | Done | Good. |
| Johnson Signal Co | 1 | Fly-wheel guarded | Done | Good. |
| Van Campen Bros | 3 | Three pulleys on printing presses guarded | Done | Good. |
| Houseman & McManus | | | | Good. |
| Chas. Grube | 1 | Fly-wheel guarded | Done | Good. |
| Howard & Co | | | | Good. |
| Wilkins & Pickering | | | | Good. |
| E. Graves | | | | Good. |
| Fredrick Eyer | | | | Good. |
| Mershon Bros | 1 | Main belts boxed | Done | Good. |
| Red Bank— | | | | |
| L. B. Conklin | | | | Good. |
| C. C. Reagles | 1 | | | Good. |
| J. Broadmeadow | | Rail on stairs | | Good. |
| C. L. Davis | | | | Good. |
| J. W. Marsh | 1 | | | Good. |
| J. W. Stout | 1 | Rail on fly-wheel | | Good. |

## CHANGES ORDERED AND CONDITION OF FACTORIES—THIRD DISTRICT—Continued.

| LOCATION AND NAME OF COMPANY. | | CHANGES ORDERED. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|---|
| Red Bank— | | | | |
| Rogers & Walling | | | | Good. |
| Root & Gibbens | | | | Good. |
| G. T. Hook | 2 | Fly-wheel and pulley on saw table guarded | | Good. |
| John M. Hoffmire | | | | Good. |
| C. Aug. Rodgers | | | | Good. |
| James Walsh | | | | Good. |
| American Mfg. Co | | | | Good. |
| Perth Amboy— | | | | |
| Spa Brick Works | 2 | Elevator and stairs guarded | Done | Good. |
| Anness & Lyle Mfg. Co. | | Main belt and shafting guarded. | | Good. |
| Henry Maurer | 2 | Small elevator and main belt guarded | | Good. |
| Amboy Terra Cotta Works | | | | Good. |
| Arthur Buel Mfg. Co. | | | | Good. |
| United Refining Oil Co | | | | Good. |
| Henry White | | | | Good. |
| Rosseler & Hasslacker | | | | Good. |
| Ashland Emery Co | | | | Good. |
| Raritan Porous Brick Co. | 1 | Pulley and all stairs guarded | Done | Good. |
| Thos. Lingle | 2 | Rail on stairs and main belt guarded | Done | Good. |
| John Hornsby & Co | 1 | Gearing on grinding machine guarded. | Done | Good. |
| Wm King | 1 | Floor shafting guarded | Done | Good. |
| Mathiaeren & Hansen | | | | Good. |
| Gleason & Co | | | | Good. |
| Plainfield— | | | | |
| Van Deventer & Co | | | | Good. |
| Pond Tool Co | | | | Good. |
| Potter Printing Press Works | | | | Good. |
| Walter Scott & Co | | | | Good. |
| Central Stamping Co | | | | Good. |
| Old Bridge— | | | | |
| Tile Mfg. Co | | | | Good. |
| New Brunswick— | | | | |
| Norfolk and N. B. Hosiery Co. | 2 | Fly-wheel in yard and shafting guarded | Done | Good. |
| Middlesex Shoe Co | 1 | Shafting guarded | Done | Good. |
| J. B. Van Nise | | | | Good. |
| J. J. Watson | | | | Good. |
| F. Felter & Co | 1 | Shafting guarded | Done | Good. |
| C. Hingner & Son | | | | Good. |
| Rob't Flieder | | | | Good. |
| Mosquito Netting Co | | | | Good. |
| Chas. C. Davis & Co | | | | Good. |
| Empire Machine Co | | | | Good. |
| Consolidated Fruit Jar Co. | 1 | Gearing and two belts guarded | Done | Good. |
| N. J. Lamp and Bronze Co. | 1 | Rail on elevator | Done | Good. |
| Janeway & Co | | | | Good. |
| N. J. Rubber Co | 1 | All gearing and floor shafting boxed | | Good. |
| Middlesex Rubber Co | 1 | Two fly wheels and all gearing boxed | | Good. |
| Janeway & Carpenter | 2 | Two belts and tower elevator guarded; second, third and fourth floors to be ventilated | | Good. |
| Adam Green | 1 | Rail on hatchway | | Good. |
| Geo. Bettler | 2 | Two belts and rail on back stairs guarded | | Good. |
| J. B. Archer | 1 | Shafting guarded | | Good. |

## CHANGES ORDERED AND CONDITION OF FACTORIES—THIRD DISTRICT—Continued.

| Location and Name of Company. | Changes ordered. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|
| New Brunswick— | | | |
| Cronk & Voorhees | | | Good. |
| John Guible & Son | | | Good. |
| J. Merserolle | Shafting guarded | Done | Good. |
| L. T. Ives | One belt guarded | Done | Good. |
| Johnson & Johnson | | | Good. |
| Menlo Park— | | | |
| Menlo Park Ceramic Works | Two belts boxed | | Good. |
| Matawan— | | | |
| J. L Rue | | | Good. |
| R. C. Winters | | | Good. |
| Dunn, Dunlap & Co | Stairs repaired | | Good. |
| Wm. Bailey | | | Good. |
| Bushnell & Co | | | Good. |
| J. M. Antsell | Bars on elevator | | Good. |
| Milltown— | | | |
| Meyer Rubber Co | All gearing and one belt guarded | | Good. |
| Manasquan— | | | |
| Wm. F. Taylor | | | Good. |
| Thos. Vauhn | Guard belt on saw-table | Done | Good. |
| R. V. Van Schork | | | Good. |
| W. W. Stout | Guard fly-wheel | | Good. |
| D. B. Wyckoff | Fly-wheel, three belts and all gearing guarded | | Good. |
| Long Branch— | | | |
| Peddington Bros | Guard saw-belt | | Good. |
| L. D. Edwards | | | Good. |
| John M. Davis | | | Good. |
| C. D. Reed | | | Good. |
| Little Silver— | | | |
| E. E. Hazard | Guard fly-wheel and main belt | | Good. |
| Linden— | | | |
| Lion Silk Mills | | | Good. |
| Keyport— | | | |
| C. S. Bucklin | Guard fly-wheel | | Good. |
| Tilton & Chenny | Guard hatchway | | Good. |
| Lorillard & Co | Guard all gearing and two belts | | Good. |
| Keyport Brick and Tile Co | Three belts boxed | | Good. |
| Jamesburg— | | | |
| Wm. H. Martin | Guard fly-wheel and shafting | Done | Good. |
| Middlesex Mfg. Co | Guard shafting | Done | Good. |
| Downs & Finch | | | Good. |
| Helmetta— | | | |
| Geo. Helm & Co | Ventilate grinding-room; rail on elevator | Done | Good. |
| Freehold— | | | |
| Henry Rotchild | Shafting boxed | Done | Good. |
| John W. Allen | | | Good. |
| Combs & Bowden | | | Good. |
| Stokes Bros | | | Good. |
| Jos. Blakely | Fly-wheel guarded; new stairs in tin department | | Good. |
| W. E. Curley | Fly-wheel guarded | | Good. |

## CHANGES ORDERED AND CONDITION OF FACTORIES—THIRD DISTRICT—Continued.

| LOCATION AND NAME OF COMPANY. | CHANGES ORDERED. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|
| Elizabeth— | | | |
| Henry Rousenbaum | Guard shafting | Done | Good. |
| B. S. Strauss | | | Good. |
| Heidritter & Son | | | Good. |
| " " | Guard saw belt | Done | Good. |
| Eugene Munsell & Co | | | Good. |
| Wm. O. Smith | | | Good. |
| L. B. Beerbower | Stairs to be screened and railed | Done | Good. |
| Rising Sun Brewing Co | Bar on hatchway | Done | Good. |
| N. J. Dry Dock and Planing Mill | | | Good. |
| N. Y. Fire Proof Paint Co | | | Good. |
| Borne, Scrymser & Co | | | Good. |
| Bowker Fertilizer Co | Ventilate grinding-room | Done | Good. |
| Staten Chemical Co | | | Good. |
| N. J. Extraction Works | | | Good. |
| C. R. R Shops | | | Good. |
| Jos. Blatz | | | Good. |
| Frederick Artz | | | Good. |
| Zululove & Co | Shafting to be boxed | Done | Good. |
| E. G. Blakely | | | Good. |
| Howson & Son | | | Good. |
| American Gas Furnace Co | | | Good. |
| Elizabeth Cordage Works | Two belts boxed and floor in spinning-room repaired | Complied with. | Good. |
| Heywood & Co | Shafting on stretching machine guarded | | |
| Isaac Worrall | | | Good. |
| S. L. Moore & Son | Guard belt and gearing | Done | Good. |
| Wm. H. Rankin | Belt on rolling machine to be guarded | Done | Good. |
| J. M. Graft & Co | | | Good. |
| Elizabeth Oil Cloth Co | | | Good. |
| Singer Mfg. Co | Four belts in cabinet department guarded; all gearing in wheel department, all shafting on polishing machine guarded; main belt and four small belts in screw department to be guarded; two belts in carpenter department to be guarded | Done | Good. |
| Washington Rubber Co | Shafting on stretching machine covered; all gearing boxed; main stairs screened | | Good. |
| Peter Briedt Brewing Co | | | Good. |
| Patrick Sheridan | | | Good. |
| Chas Forsyth | | | Good. |
| City Flour Mills | Rail on hatchway | Complied with. | Good. |
| Pacific Rubber Works | Shafting on stitching machine guarded, and all gearing guarded | Complied with. | Good. |
| Chas. F. Miller | Shafting boxed | Complied with. | Good. |
| Elizabeth Nickel Plating Co | | Complied with | Good. |
| Lambert Machine Shop | | Complied with. | Good. |
| James Waddell | | Complied with. | Good. |
| C. B Churchill | Shafting boxed | Complied with. | Good. |
| Union Oil Cloth Co | | | Good. |
| A. L. Brown | | | Good. |
| Carteret— | | | |
| Colwell Iron Works | Box belt on planing machine | Complied with. | Good. |
| Wm. Clark & Co | Railing and main belt in mixing-room to be boxed | Complied with. | Good. |
| Carteret Brick Works | Rail on elevator | Complied with | Good. |

## CHANGES ORDERED AND CONDITION OF FACTORIES—THIRD DISTRICT—Continued.

| LOCATION AND NAME OF COMPANY. | CHANGES ORDERED. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|
| Carteret— | | | |
| Leibig Fertilizer and Mfg. Co. 4 | Box three belts; rail on elevator | | Good. |
| Bound Brook— | | | |
| Bound Brook Woolen Mills. 2 | Cover on oil pit; ventilate rag-picking room | Complied with. | Good. |
| Hickman Hose Coupling Co. 1 | Guard-rail around fly-wheel | Complied with. | Good. |
| Hartford Compressed Air Pump Co. | | | Good. |
| Standard Paint Co. | | | Good. |
| Shuckleton Car Heating Co. | | | Good. |
| Wm. W. Anderson. 1 | Fly-wheel and main belt to be boxed | | Good. |
| Wm. H. Bache. 2 | Two belts to be boxed | | Good. |
| American Paint Co. 5 | Rail on stairs and four belts to be boxed; fly-wheel and belts in cellar to be guarded; fly-wheel on engine to be guarded | | Good. |
| Asbury Park— | | | |
| H. J. Rodgers | | | Good. |

## REPORT OF ACCIDENTS—THIRD DISTRICT.

| LOCATION. | NAME. | NAME OF COMPANY. | NATURE AND RESULT OF ACCIDENT. |
|---|---|---|---|
| Elizabeth | James Smith | Singer Mfg. Co | Foot burned with hot metal. |
| " | James Handlane | " " | Killed by explosion of steam-pipe. |
| " | Patrick O'Neill | " " | Casting fell on foot and crushed it. |
| " | Peter Link | " " | Broke his leg by falling. |
| Carteret | William R. Rapp | Colwell Iron Works | Wrist broken; caught in belt. |
| New Brunswick | John Faulkner | J. B. Archer Shoe Factory | Lost two fingers in stamping machine. |
| " " | Martin Cauley | Johnson & Johnson | Lost his arm in beating machine |
| Sayreville | Anthony Wilonofsky | J. R. Crossman Clay Pit | Killed by clay car. |
| Rahway | Henry Rhodes | Van Campen Bros. | Arm broken by press. |

# ACCIDENTS IN FACTORIES.

*With Suggested Measures to Alleviate their Results.*

BY FRANCIS SAYRE, DEPUTY FACTORY INSPECTOR OF NEW JERSEY.

Inspector Sayre read the following paper before the Convention:

"Accidents will happen in the best regulated families." Even well-conducted factories and shops are not exceptions to this trite old rule.

Notwithstanding the safeguards the State throws around the machinery or tools used by its subjects, the number of accidents still remain very large. Belts slip and break, cogs catch the dress, fingers fail to keep out of the way of the descending punch, hot liquids spill or sputter, a thousand-and-one things happen in spite of all precautions, resulting in injury more or less serious, a loss of time and suffering to the workman, extending from hours to weeks and months, sometimes years. This may mean to the employer a loss of valuable help, with more or less liability for wages; to the injured workman, loss of wages, and expense for surgical attendance during sickness. In grave or simple cases no small aggregate if summed up for a district or State for a year or term of years. While the province of the State is to prevent mishaps, or in their happening to place the responsibility upon whom it may belong, we are forced to admit that a great number of injuries occur with great regularity in spite of us.

We might for a moment consider if something could not be done to, as far as possible, ameliorate the results. Sometimes a trifling injury becomes of serious import. A small sliver may produce a festering sore that is years in healing. The gouge of a rusty nail or tool, tetanus (or lock-jaw); a cut artery, death from loss of blood. In the writer's district a simple sliver was picked out by the workman with a corroded pin, blood-poisoning ensued, resulting in a loss of two fingers, and rendering the man practically a cripple for two years. A workman stepped on a rusty-pointed punch, cutting slightly

into his flesh. Nothing was thought of it, and he continued his work for the day. In three days he died from lock-jaw.

A case of severe burn at a factory the injured had to wait some hours before any aid and final removal to the hospital could be secured. The result was much against the sufferer in the subsequent results. Prompt aid, even if not skilled surgical, would have been of great service. In our State there are but few hospitals, and many factories and works are located as remote as forty miles from a hospital, and many from surgical aid and supplies. These could be multiplied, and many cases cited where from causes such as lack of or improper surgical attendance, serious results have followed not to be expected from the immediate extent of the injury.

Surgical science has made great advancement in these days, and while it has done much to save the injured workman from suffering from loss of life and limb (in capital wounds, such as liable to occur in factories, or from any machinery, good results are the rule where in former years they were the exception), yet good surgery, hospitals and modern treatment are not always to be had when wanted most, and in many so-called minor cases of injury are not sought, from wrong judgment, lack of means, or other reasons, so that suffering, loss of time, wages, and all accompaniments still go on.

As a rule, the more grave the injury the more untimely the hour in which it happens. After office hours for the surgeons, all away to a camp-meeting or convention, hospital closed for the summer or repairs, something sure to cause delay. When a surgeon, doctor or one passing under the name is finally obtained, he arrives empty-handed, the shop does not afford so much as a clean rag; and, while on a pinch he may improvise something for his purpose, delays too often result. As the injury goes down the scale in importance, it is likely to be considered as not amounting to much. Home-made or quack agents are applied, and in time it enlarges to greater proportions than capital cases. Under good surgery and hospital treatment, difficult amputations will heal in seven to fourteen days with perfect results; a trifling scratch or cut, under bad treatment, will run into months and years. In a word, lives and limbs are lost or rendered useless that should not even be imperilled. So much so is this the case that many railroads, for their own protection against loss or damage, provide surgical attendance and supplies at convenient points, so that

delays or lack of means for proper treatment are avoided; and they require all injuries to be at once attended to by methods of their provision, not the patients' selection. Without entering too far into the domain of surgery, we can for our part perhaps apply a few common-sense rules that may be of service. Prof. Eswach, of Germany, says that the fate of an injured man depends upon the person in whose hands he first falls.

In accidents, the old rule, "Delays are dangerous," well applies. "Run for a doctor" is on everybody's tongue when a hand or foot is mashed, but it may take longer to find him than to read this paper, and if the reader survives the sufferer may not. If it is only a little one it is left alone, and see how it is to-morrow, or so-and-so's healing salve is applied; and to-morrow, when it comes, finds a festering sore or a useless limb. If we glance in one of our surgical friend's books, we will find that the instant the flesh of a being is in any way injured, a host of agents (millions that no man can number) are more active and alert than Factory Inspectors ever dream of being, go for that injury; and, with unpronounceable names attached to them, they set up actions that produce poisonous changes, suppuration, inflammations, septicæmia and other formidable conditions. The dirt of the machinery and benches, on the workman's hands and clothing, and the well-laden air of the factory, but multiply their forms and hasten the destructive work, so much so that, figured in cash, seconds are dimes, minutes are dollars and hours are hundreds of dollars in the extent of damages accrued when medical agencies are applied. Not only the enemy's work who struck the first blow, but the work of legions of strikers still at work must be met.

We need not further discuss the principles that underlie these facts. It is sufficient to state that in accidents such as are of very frequent occurrence under our observation, we can aid in mitigating the results by seeing that the best possible methods are applied.

Some factories now either have at hand, or within call, one or more surgeons, and provide proper appliances, but they are a rarity. In their absence or neglect of their use means may and should be applied to secure recovery with the least amount of suffering and loss. Modern surgeons now treat wounds and injuries of every nature by what is termed "Antiseptic Method," or methods which prevent poisonous inflammations liable to occur when the flesh is cut, bruised or torn. Progress in the treatment of such injuries, as we observe, has

made it possible for persons of ordinary intelligence to aid in their prompt and effective application, and while lay treatment can never supplant the surgeon, it can do much to aid him. Neglect, entire or partial, has resulted in grave disaster, but misdirected attempts to do something, or direct wrong application, are so far apart as not worthy of consideration. Give a person fitted to have charge of a room or apartment, without previous knowledge or skill as to what to do in a small or great accident, and place in his hands proper appliances, and the chances are one thousand to one he will do just what he ought to do. The emergency and opportunity will inspire him to a fitting course. In fact, for the purpose here outlined, proper cleansing of the injured part, and doing it up in a simple, ready-prepared dressing, is effectual and very important progress, and is so simply applied and will give such satisfactory results as to be worthy of serious consideration.

To carry out the suggestions here outlined, manufacturers of surgical dressings, at the writer's suggestion, after consulting competent surgeons, have devised a case of appliances so arranged that any person with ordinary sense can use them with the most satisfactory results. In fact, the nature of the articles suggests their use at sight. For instance, bandages to arrest the flow of blood when an artery is cut; tablets to make a wash to cleanse a wound; sponges to wash it with; soft lints, cottons and gauzes to cover it with; dressing for burns or scalds; bandages so cut and shaped that if a person picks them up he will at a glance see what they are for. The case includes pins, fastenings, scissors, bandages, dressings and appliances all properly put up to preserve them in good condition, and have them always at hand just when wanted, and as has been pointed out, if surgical assistance is called there is at hand without delay just what is needed for the first dressing. Accompanying the case are explicit and plain directions for the use of the articles. It is designed that at least one such case or box shall be placed in every factory, under charge of a Superintendent, foreman or other suitable person, where its use cannot fail to result in good.

# FOURTH DISTRICT.

*Lawrence T. Fell, Esq., Chief Inspector of Factories:*

I desire to submit to you my annual report, giving my views and submitting the work done by me in my district since my appointment as one of your Deputies. I have made careful and diligent efforts to have the provisions of the law strictly enforced. I find that the factory laws now upon our statute-books are important as well as popular, and have caused employers to be more careful in the treatment of their help, and endeavor to make improvements that will make life more pleasant in our factories and workshops, and also have a tendency for the better protection of life and limb. The Fourth District comprises the whole of Hudson county, and has within its boundary 300 factories, employing from 4 to 3,000 hands in some of them. During my experience as a Factory Inspector, I have found invariably that the factory laws were mostly violated in the smaller factories; in the larger ones, I find in most cases that the law was complied with, and any recommendations as to changes would be carried out at once. The Fire-escape law is the only law that the manufacturers try to evade, as you will see in my report that I have ordered a number of them to be erected on factories which I considered very dangerous buildings. In most cases they flatly refused to erect them; in some cases they were erected. Among those who erected them were the Brooklyn Cooperage Works, Hall's Glove Works, Jersey City, and Baumgartner's Works, Town of Union. The only reason I can give for their refusal to erect the fire-escapes is that they seem to be under the impression that our law is not good. I have a suit pending in court against James Leo, for refusing to erect a fire-escape on his factory. The termination of this suit will certainly be of great value to this department as to the legality of the law.

The sanitary arrangements in most factories I have found most satisfactory. In every instance where I found females employed with

male help, and only one closet for the use of both sexes, the owner's attention was called to this abuse of decency, and orders were immediately issued that only females were to use the closets, and separate ones should be erected for the males. In all such cases, these orders were complied with without resorting to law.

The employment of minors in factories is fast diminishing. During my first year in office, as my last report shows, a large number of children were employed under fourteen years of age. I can safely say that it has decreased 50 per cent. this year. I find that a great many manufactories does not want such small help, and when we find them in the factories, as a rule, they misrepresent their age. In some of the larger factories they get into the shops through some trick or device, and I might say a great many of them are taken into the workshops by their parents under a misrepresentation. On a recent inspection in Clark's O. N. T. Factory at Kearny, I found twelve girls under fourteen years of age. On questioning them I ascertained their right age, and asked them how they managed to get employment in the factory. In a great many cases they told me that their parents told them to tell the Superintendent that they were fifteen years old. I also found about eighty-five girls employed there. I thought their ages were doubtful. In those cases certificates were demanded by me. The most astonishing revelations of the employment of child labor that ever came under my observation as Inspector, was in the barrel department of the Standard Oil Works. I found fifteen boys, their ages ranging from eight to eleven, employed there, and most of them earning eighty-five cents per week. These boys are employed by the coopers, and their labor consists of carrying heads of barrels to the finishers. It was very difficult for me to make them understand me that they were violating the law by employing those children. Most of them are Hungarians and Poles. These boys were discharged by me, and notice served on the Superintendent that this department will hold the company liable in future for the employment of minors by their men.

Guarding of machinery and elevators has received my special attention.

During my inspections throughout my district, I have been very courteously received by the manufacturers at all times. I have always found them willing to comply with the law, and carry out any reasonable demand made by me that would insure better health and safety to their employes.

Acting under your instructions, I have been assisted in some of my inspections by other Inspectors, and I have found it a great advantage in having these double inspections in the large factories of our State.

The various accidents reported to me during the year have been investigated by me, and a detailed account of each one of them has been submitted to you.

In conclusion, I wish to express myself as well pleased with the manner in which the law has generally been accepted by manufacturers and employes in my district. All agree that its effect is good, and in not a few cases have manufacturers expressed themselves to me that they are more than pleased with all the factory laws enacted.

Yours,

J. S. WEINTHAL.

## FACTORIES INSPECTED—FOURTH DISTRICT.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—Females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Jersey City | John Karcher & Co | Chemicals | 5 | ..... | ..... | ..... |
| " " | Hog Abattoir | Slaughter-house | 75 | ..... | ..... | ..... |
| " " | U. S. Fuel Co | Fuel | 10 | ..... | ..... | ..... |
| " " | N. J. Sheep and Wool Co | Tannery | 35 | ..... | 1 | ..... |
| " " | H. Wilkens | Tanks | 10 | ..... | ..... | ..... |
| " " | Columbia Rolling Mill | Metal | 6 | ..... | ..... | ..... |
| " " | Corcoran & Co | Wind mills | 50 | ..... | ..... | ..... |
| " " | J. J. Donohue | Corsets | ..... | 13 | 2 | ..... |
| " " | Cockburn Mfg. Co | Machinery | 25 | ..... | ..... | ..... |
| " " | N. J. Stone Crushing Co | Crusher | 10 | ..... | 1 | 1 |
| " " | Emil Morel | Dyeing | 15 | ..... | ..... | ..... |
| " " | Winter-Ball Mfg. Co | Canes, &c | 225 | ..... | 75 | 3 |
| " " | N. J. Car Heating Co | Heaters | 45 | ..... | ..... | ..... |
| " " | N. J. Car Lighting Co | Lamps | 40 | ..... | 1 | ..... |
| " " | Brady Metal Co | Metal | 18 | ..... | ..... | ..... |
| " " | Oakley's Soap Co | Soap | 20 | 50 | 15 | ..... |
| " " | Thos. J. Stewart | Carpet cleaning | 12 | ..... | ..... | ..... |
| " " | N. J. Paint Works | Paints | 9 | 1 | ..... | ..... |
| " " | B. Mills & Sons | Oakum | 15 | ..... | 4 | 1 |
| " " | J. C Paper Co | Paper | 36 | 4 | 2 | ..... |
| " " | Stratfords Oakum Co | Oakum | 50 | ..... | 5 | ..... |
| " " | Colgate & Co | Soap | 398 | 2 | 125 | ..... |
| " " | F. G. Otto & Son | Surgical instruments | 86 | ..... | 5 | ..... |
| " " | Pattberg Bros | Brass goods | 125 | 50 | 35 | ..... |
| " " | Heppenheimer's | Lithographing | 235 | ..... | 40 | ..... |
| " " | O. Dowey & Sons | Oakum | 20 | ..... | 4 | ..... |
| " " | Mathiesens & Wichers | Sugar | 1200 | ..... | ..... | ..... |
| " " | Chas. Brauman | Paper boxes | 5 | 17 | 5 | ..... |
| " " | N. J. Embroidery Co | Embroidery | 1 | 21 | 5 | 1 |
| " " | L. B. Shaffer | Silk | 5 | 10 | ..... | ..... |
| " " | John Lazier | " | 5 | 10 | ..... | ..... |
| " " | C Stohn | " | 31 | 4 | ..... | ..... |
| " " | Chapman Bros | Rufflings | 4 | 4 | ..... | ..... |
| " " | Poidabards Silk Co | Silk | 200 | 400 | 74 | 1 |
| " " | A. Jonas | Machinery | 15 | ..... | ..... | ..... |
| " " | O. P. Brown | Medicines | 5 | 2 | ..... | ..... |
| " " | R. Hillers & Son | Chemicals | 22 | ..... | ..... | ..... |
| " " | Garvey Bros | Machinery | 20 | ..... | ..... | ..... |
| " " | A. Holmes | " | 10 | ..... | ..... | ..... |
| " " | Edison Phonograph Co | Phonographs | 10 | ..... | ..... | ..... |
| " " | A. B Cushing | Machinery | 25 | ..... | ..... | ..... |
| " " | Wallis Bros | " | 200 | ..... | ..... | ..... |
| " " | Vulcan Iron Works | " | 35 | ..... | ..... | ..... |
| " " | F. Smith & Bros. | " | 60 | ..... | ..... | ..... |
| " " | Heidt & Son | Barrels | 25 | ..... | ..... | ..... |
| " " | Brooklyn Cooperage Co | " | 200 | ..... | 15 | 3 |
| " " | Frazer Axle Grease Co | Grease | 12 | ..... | ..... | ..... |
| " " | J. C. Iron Works | Machinery | 30 | ..... | ..... | ..... |
| " " | Consolidated Iron Works | " | 25 | ..... | ..... | ..... |
| " " | A. King & Co | " | 75 | ..... | ..... | ..... |
| " " | L. & M. Rubber Co | Rubber | 100 | 10 | 10 | ..... |
| " " | Springer Balance Co | Scales | 50 | ..... | ..... | ..... |
| " " | Geo. Mathers | Ink | 40 | ..... | ..... | ..... |
| " " | Douglass & Sons | Machinery | 15 | ..... | ..... | ..... |
| " " | Hudson Foundry | " | 25 | ..... | ..... | ..... |
| " " | Ribbon & March | " | 125 | ..... | ..... | ..... |
| " " | A. Gross & Co | Candles | 25 | ..... | ..... | ..... |
| " " | N J Wheel Co | Wheels | 100 | ..... | ..... | ..... |
| " " | J. C. Galvanizing Co | Galvanizing | 25 | ..... | ..... | ..... |
| " " | W. Ames & Co | Spikes | 75 | ..... | 7 | 1 |
| " " | McKnight & Chichester | Mouldings | 25 | ..... | ..... | ..... |
| " " | U. S. Machine Co | Machinery | 25 | ..... | ..... | ..... |
| " " | Steel & Condict | " | 25 | ..... | ..... | ..... |

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6-5-44 8-6-3 12-4-11

## FACTORIES INSPECTED—FOURTH DISTRICT—Continued.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Jersey City | J. C. Wheel Co. | Wheels | 25 | ..... | ..... | ..... |
| " " | Barnes & Co. | Machinery | 20 | ..... | ..... | ..... |
| " " | Eagle Tube Co. | Tubes | 25 | ..... | ..... | ..... |
| " " | Fulton Boiler Co. | Boilers | 10 | ..... | ..... | ..... |
| " " | Delaney Spring Works. | Springs | 10 | ..... | ..... | ..... |
| " " | E. Gorthberg | Brass goods | 24 | ..... | ..... | ..... |
| " " | O'Brien & Williams | Gas fixturers | 6 | ..... | 1 | ..... |
| " " | Detweller & Street. | Fireworks | 40 | 80 | 20 | ..... |
| " " | Ban-Dinividdie | Bookbinding. | 45 | 45 | 5 | ..... |
| " " | Eureka Hose Co. | Hose | 10 | ..... | ..... | ..... |
| " " | Woodhouse & Co | Bronze | 20 | ..... | ..... | ..... |
| " " | Spear & Co. | Bandages | 4 | 4 | ..... | ..... |
| " " | Passaic Zinc Co. | Zinc | 200 | ..... | ..... | ..... |
| " " | J. J. Hines | Sashes | 10 | ..... | ..... | ..... |
| " " | Caniste Sash Works | " | 20 | ..... | ..... | ..... |
| " " | Lorillard & Co. | Tobacco and snuff | 500 | 2500 | 260 | 1 |
| " " | Tarter Chemical Works | Chemicals | 30 | ..... | ..... | ..... |
| " " | A. A. Griffing Iron Works. | Radiators | 600 | ..... | ..... | ..... |
| " " | Bergen Hair Works | Hair | 3 | 2 | 2 | 1 |
| " " | Boynton Furnace Co. | Stoves | 150 | ..... | ..... | ..... |
| " " | N. J. Standard Watch Co. | Watches | 103 | 100 | 5 | ..... |
| " " | Hitchings & Co. | Sashes | 15 | ..... | ..... | ..... |
| " " | Liberty Soap Co. | Soap | 8 | ..... | ..... | ..... |
| " " | Cosgrove William | Ventilators | 25 | ..... | 1 | ..... |
| " " | J. Toms | Oils | 8 | ..... | 1 | ..... |
| " " | John C. Fox. | Mantels | 10 | ..... | 1 | ..... |
| " " | M. Gross. | Machinery | 9 | ..... | 1 | ..... |
| " " | Baker Castor Oil Co. | Oil | 50 | ..... | ..... | ..... |
| " " | Standard Wood Co. | Wood turning | 35 | ..... | ..... | ..... |
| " " | U. S. Cocoanut Co. | Essence | 9 | 6 | 3 | 1 |
| " " | H. Turner. | Sashes | 25 | ..... | ..... | ..... |
| " " | Frank Hall | Gloves | 15 | 35 | 20 | ..... |
| " " | Dodge & Bliss | Boxes | 75 | ..... | 20 | 3 |
| " " | J. McDonald | Desks | 20 | ..... | ..... | ..... |
| " " | Hepe, Koven & Co. | Boilers | 40 | ..... | ..... | ..... |
| " " | Reinecke Bros. | Vinegar | 10 | ..... | ..... | ..... |
| " " | Wessels & Co. | Hats | 40 | 30 | ..... | ..... |
| " " | N. J. Steel Mat Co. | Mats | 15 | ..... | ..... | ..... |
| " " | J. C. Desk Co. | Desks | 30 | ..... | ..... | ..... |
| " " | Mehl & Co. | Pocketbooks. | 210 | 100 | 50 | 3 |
| " " | James Leo | Paper boxes | 80 | 95 | 15 | ..... |
| " " | A. Goldman. | Hats | 10 | 30 | ..... | ..... |
| " " | Dixon's Crucible Works | Lead pencils. | 199 | 148 | 125 | ..... |
| " " | J. Thorp | Woodwork | 8 | ..... | ..... | ..... |
| " " | J. Cranshaw | Machinery | 10 | ..... | ..... | ..... |
| " " | John Maslin | " | 10 | ..... | ..... | ..... |
| " " | C. R. James | " | 15 | ..... | ..... | ..... |
| " " | Wustran's Dry Plate Co. | Dry plates | 20 | 3 | ..... | ..... |
| " " | Carnes & Collins. | Machinery | 50 | ..... | ..... | ..... |
| " " | Woolsey Paint Co. | Paint | 100 | 5 | ..... | ..... |
| " " | Stool & Co. | Brooms | 10 | ..... | ..... | ..... |
| " " | Waldeck & Co. | Paper boxes | 45 | 13 | ..... | ..... |
| " " | Standard Oil Clothing Co. | Oil clothing | 60 | 80 | 10 | ..... |
| " " | Hyderleine Soap Co. | Soap | 6 | 6 | ..... | ..... |
| " " | Daft Electric Co. | Motors | 125 | ..... | ..... | ..... |
| " " | Royal Chemical Co. | Medicines | 6 | 6 | ..... | ..... |
| " " | R. H. Steel | Laundry | 10 | 40 | 5 | ..... |
| " " | Greenfield Machine Co. | Machines | 50 | ..... | ..... | ..... |
| " " | A. Hamil | Railings | 20 | ..... | ..... | ..... |
| " " | Brown & Miller | Cleats | 40 | ..... | ..... | ..... |
| " " | J. H. Gautier Co. | Bricks | 100 | ..... | ..... | ..... |
| " " | Hudson Steam Laundry | Laundry | 30 | 45 | 10 | ..... |
| " " | R. Hillers & Sons | Licorice | 8 | ..... | ..... | ..... |

C 3

## FACTORIES INSPECTED—FOURTH DISTRICT—Continued.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Jersey City | J. Taylor & Co | Dyeing | 10 | ..... | ..... | ..... |
| " " | Pioneer Slate Co. | Mantels | 10 | ..... | ..... | ..... |
| " " | N. J. Steam Laundry | Laundry | 10 | 35 | 5 | ..... |
| " " | H. C. Knitting Co | Worsted goods | 10 | 25 | 10 | 3 |
| " " | A. Maloney | Wood turning | 10 | ..... | ..... | ..... |
| " " | Gould & Headley | Machinery | 10 | ..... | ..... | ..... |
| " " | Billington Bros. | Soap | 8 | ..... | ..... | ..... |
| " " | M. Bemer | Cameras | 10 | ..... | ..... | ..... |
| Town of Union | Swiss Embroidery | Embroideries | 16 | 30 | 6 | 1 |
| " " | A. Baumgartner | Hats | 4 | 3 | 1 | 1 |
| " " | Simon Bros | Silk | 200 | 400 | 25 | ..... |
| " " | Bergenwood Silk Co | " | 25 | 12 | 2 | ..... |
| " " | Clifton Silk Co. | " | 35 | 65 | 26 | 1 |
| " " | F. Rotherman | Worsted goods | ..... | 12 | 5 | 1 |
| " " | H. Herold | Silk | 7 | 15 | 10 | ..... |
| " " | M. Sontag | " | 4 | 14 | 3 | ..... |
| " " | Union Granite Co | Tubs | 15 | ..... | ..... | ..... |
| " " | B. Alt | Fishing tackle | 4 | ..... | 3 | ..... |
| " " | Oscar Rockpecke | Caps | 7 | 2 | ..... | ..... |
| " " | A. Haggi | Watch cases | 50 | ..... | ..... | ..... |
| " " | Givernaud Bros. | Silk | 300 | 300 | 25 | ..... |
| " " | Haffenstein | " | 5 | 20 | 2 | ..... |
| " " | Town of Union Silk Mills | " | 120 | 105 | 10 | ..... |
| " " | John Erskine & Co | " | 135 | 65 | 10 | ..... |
| " " | Ware & Son | Shirts | 10 | 70 | ..... | ..... |
| " " | Peters' Brewery | Lager Beer | 70 | ..... | ..... | ..... |
| " " | L. Inderkoff | Shirts | 15 | 30 | 7 | 4 |
| West Hoboken | John Comby | Silk | 40 | 85 | 5 | 1 |
| " " | Givernaud Bros. | " | 350 | 150 | 20 | ..... |
| " " | Oesman & Co. | " | 40 | 60 | 5 | ..... |
| " " | Palisade Mfg. Co. | Oil | 4 | 4 | ..... | ..... |
| " " | W. J. Alexander | Feathers | 2 | 8 | 3 | ..... |
| " " | A. H. Alexander | Flowers | 3 | 16 | 4 | 1 |
| " " | J. J. Kennedy | Gloves | 5 | 25 | ..... | ..... |
| " " | G. A. Helf & Son | Brushes | 30 | ..... | ..... | ..... |
| " " | G. Rowell | Silk | 3 | 3 | ..... | ..... |
| " " | Jos. Rath | " | 15 | 30 | 5 | 2 |
| " " | B. Fontaine | Fancy boxes | 17 | 18 | 3 | ..... |
| " " | A. Bondell | Lamp shades | 3 | 10 | 3 | ..... |
| " " | Favorite Silk Co. | Silk | 20 | 130 | 10 | ..... |
| " " | Schwarzenbach & Co | " | 350 | 150 | 40 | 1 |
| " " | Bergenwood Paper Box Co | Paper boxes | 10 | 30 | 4 | 1 |
| Bayonne | McFarland & Co. | Silk | 35 | 85 | 38 | ..... |
| " | Wm. McGregor | Plumbers' supplies | 15 | ..... | ..... | ..... |
| " | Finch Stove Co. | Stoves | 25 | ..... | ..... | ..... |
| " | Tide Water Oil Co. | Wax department | 15 | 10 | ..... | ..... |
| " | " " " | Refinery department | 164 | ..... | ..... | ..... |
| " | " " " | Paraffine department | 168 | ..... | ..... | ..... |
| " | " " " | Barrel department | 271 | ..... | ..... | ..... |
| " | " " " | Mechanical department | 288 | ..... | ..... | ..... |
| " | " " " | Case department | 227 | ..... | 10 | ..... |
| " | Standard Oil Co. | Shipping department | 200 | ..... | 20 | ..... |
| " | " " | Refinery department | 327 | ..... | ..... | ..... |
| " | " " | Paraffine department | 130 | ..... | ..... | ..... |
| " | " " | Mechanical department | 250 | ..... | ..... | ..... |
| " | " " | Barrel department | 900 | ..... | 60 | 15 |
| " | Oxford Copper Co | Copper | 350 | ..... | ..... | ..... |
| " | Columbia Oil Co. | Oil | 25 | ..... | ..... | ..... |
| " | Constable Hook Oil Co | " | 35 | ..... | ..... | ..... |
| " | C. F. Reynolds | Paint | 60 | ..... | ..... | ..... |
| West New York | Landrau Silk Co. | Silk | 42 | 33 | 10 | ..... |
| " " " | L. & R. Wilcox | Lard | 150 | ..... | 5 | ..... |
| " " " | Lutz & Co | Surveyors' implements | 20 | ..... | 2 | ..... |

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## FACTORIES INSPECTED—FOURTH DISTRICT—Continued.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| West New York | American Thread Co | Thread | 4 | 1 | ..... | ..... |
| " " " | Contruat & Co. | Silk | 20 | 60 | ..... | ..... |
| Arlington | Arlington Mfg. Co. | Collars and cuffs | 65 | 18 | 5 | ..... |
| " | Hoyt's Metal Co. | Metal | 10 | ..... | ..... | ..... |
| " | Beckert's Machine Co. | Machines | 80 | ..... | ..... | ..... |
| " | Standard Flint Co.. | Flint paper | 18 | 2 | ..... | ..... |
| Harrison | Lagowitz & Co. | Trunks | 300 | 7 | 25 | ..... |
| " | N. J. Adamant Co. | Plaster | 10 | ..... | ..... | ..... |
| " | Durie & Davidson | Stone yard | 50 | ..... | ..... | ..... |
| " | Kerr & Co. | Thread | 70 | 25 | 10 | ..... |
| " | Hollingsworth & Co. | Steel | 100 | ..... | ..... | ..... |
| " | Carr & Ball | Stone yard | 25 | ..... | ..... | ..... |
| " | Herold & Co. | Cutlery | 30 | ..... | ..... | ..... |
| " | Stewert & Hartzsohn | Shades | 140 | ..... | 22 | 1 |
| " | Harrison Tannery | Leather | 30 | ..... | 4 | ..... |
| " | Hauck's Brewery | Beer | 70 | ..... | ..... | ..... |
| " | Edison Lamp Co. | Lamps | 300 | 115 | 40 | 2 |
| Kearny | Clark's O. N. T. Thread Co. | Thread | 300 | 1100 | 112 | 12 |
| " | John Randell & Co | Sashes.. | 50 | ..... | ..... | ..... |
| " | Newark Machine Co. | Machines | 60 | ..... | ..... | ..... |
| " | G Winnas | Hats.. | 40 | 20 | 4 | ..... |
| " | Marshall's Thread Co. | Thread | 230 | 400 | 52 | 2 |
| " | Nairn Linoleum | Linoleum | 220 | ..... | 30 | ..... |
| " | Clark's Mile End Thread Co. | Thread | 200 | 600 | 50 | 2 |
| " | Kearny Wire Works | Wire | 30 | 5 | 5 | ..... |
| Hoboken | Meyenberg's.. | Silk | 125 | 75 | 10 | ..... |
| " | Keuffel, Esser & Co. | Surveying instruments | 94 | 6 | 10 | ..... |
| " | American Lead Pencil Co. | Lead pencils | 125 | 200 | 30 | ..... |
| " | Lehman & Clark | Pocketbooks | 75 | 50 | 15 | ..... |
| " | Barnes & Hogan.. | Paper | 10 | ..... | ..... | ..... |
| " | James Reynolds | " | 28 | 7 | ..... | ..... |
| " | R. Neuman & Co | Leather | 75 | ..... | ..... | ..... |
| " | N. Randell | Planing mill | 8 | ..... | ..... | ..... |
| " | R. P. Francis, Jr. | " " | 15 | ..... | ..... | ..... |
| " | Gahagan Bros. | " " | 12 | ..... | ..... | ..... |
| " | Coogan & Co. | Laundry | 8 | 8 | ..... | ..... |
| " | Villar Bros | Corks | 10 | 10 | 4 | ..... |
| " | R. Lowry | Paste | 5 | 3 | ..... | 1 |
| " | A Redlinger | Leather | 15 | ..... | ..... | ..... |
| " | Kitz & Grenfeler | Chemicals | 8 | ..... | ..... | ..... |
| " | Mansfield & Fagan | Iron railings, &c. | 75 | ..... | ..... | ..... |
| " | Progressive Iron Works. | " " | 15 | ..... | ..... | ..... |
| " | Rob't Meyer | Ink | 10 | ..... | ..... | ..... |
| " | Chapel, Chase & Maxwell | Coffins | 75 | 15 | ..... | ..... |
| " | John Boyle | Oil cloth | 8 | ..... | ..... | ..... |
| " | George Fussel | Shades | 25 | ..... | ..... | ..... |
| " | John Brown | Stone yard | 200 | ..... | ..... | ..... |
| " | G. Hauser | Segars | 25 | ..... | ..... | ..... |
| " | Demerest & Stagg | Stairs | 10 | ..... | ..... | ..... |
| " | Hotop & Co | Varnish | 10 | ..... | ..... | ..... |
| " | George Foecht | Iron buckets | 50 | ..... | ..... | ..... |
| " | John McLaren | Boilers | 75 | ..... | ..... | ..... |
| " | Snyder & McGran | Tallow | 10 | ..... | ..... | ..... |
| " | Hoboken Land and Imp. Co. | Machine shops | 75 | ..... | ..... | ..... |
| " | Fletcher & Co. | Machinery | 350 | ..... | ..... | ..... |
| " | Steneck & Co | Soap | 10 | ..... | ..... | ..... |
| " | Penna. R. R. Shops | Boat department | 100 | ..... | ..... | ..... |
| " | Elysian Machine Shops | Machines | 25 | ..... | ..... | ..... |
| " | Wm. Schremper | Brass goods | 175 | 25 | 10 | ..... |
| " | Wetter & Blumstehli | Embroideries | 21 | 7 | 2 | ..... |
| " | A Lankering | Segars | 20 | ..... | ..... | ..... |
| " | James Harksen | Steam laundry | 3 | 15 | ..... | ..... |

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## CHANGES ORDERED AND CONDITION OF FACTORIES—FOURTH DISTRICT.

| Location and Name of Company. | Changes Ordered. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|
| Jersey City— | | | |
| John Karcher & Co. 1 | Fan to carry dust off, &c | Partly | Not good. |
| Hog Abattoir 3 | Guard belts, elevators and erect ventilators. | Carried out | Fair. |
| U. S. Fuel Co. 1 | Guard fifty openings | Carried out | Not good. |
| N. J. Sheep and Wool Co. 2 | Guard belts and stair openings | Carried out | Good. |
| J. J. Donhue 1 | Guard shafting | Carried out | Good. |
| Oakley's Soap Works 1 | Fire-escapes | Not erected | Fair. |
| W. O. Davey 1 | Guard fly-wheel | Carried out | Good. |
| Mathiesen & Wichers 1 | Fire-escapes | Not erected | Fair. |
| L. B. Schaffer 1 | Keep main door unlocked | Carried out | Good. |
| John Lazier 1 | Erect toilet-room for females | | Fair. |
| C. Stohn 1 | Guard fly-wheel and shaft | Carried out | Good. |
| Edison Phonograph Co. 1 | Guard one belt | Carried ou | Good. |
| A. B. Cushing 2 | Guard one belt; erect fire-escape | Not erected | Fair. |
| Brooklyn Cooperage Co. 2 | Guard elevators and erect fire-escape | Carried out | Good. |
| L. & M. Rubber Co. 1 | Guard belts | Carried out | Good. |
| Mathers' Sons 1 | Guard belts | Carried out | Good. |
| A. Gross & Co 1 | Guard hatch openings | Carried out | Good. |
| Ames & Co. 1 | Guard fly-wheel | | Good. |
| O'Brien & Williams 1 | Guard shafting | | Good. |
| P. Lorillard Co. 2 | Guard shafting under sewing machines and four elevator openings | Carried out | Good. |
| N. J. Standard Watch Co. 1 | Erect fire-escapes | Not erected | Fair. |
| Liberty Soap Co. 1 | Guard fly-wheel and belt | Carried out | Fair. |
| Baker Castor Oil Co. 3 | Guard belts, shafting and fly-wheel | Carried out | Good. |
| U. S. Cocoanut Co. 3 | Guard belts, shafting and erect toilet-room for females | Carried out | Fair. |
| Frank Hall 2 | Guard shafting under sewing machines, and erect fire-escape | Carried out | Good. |
| Dodge & Bliss | To discontinue working minors over sixty hours per week | Carried out | Good. |
| J. C. Desk Co. 1 | Whitewash toilet-room | Carried out | Good. |
| Mehl & Co | To discontinue working minors over sixty hours per week | Carried out | Good. |
| James Leo 1 | Erect fire-escape | Case pending in court | Fair. |
| A. Goldman 2 | Guard fly-wheel; clean toilet-rooms | Carried out | Fair. |
| Dixon's Crucible Works 8 | Guard eight belts | Carried out | Good. |
| Daft Electric Co. 1 | Guard hatch openings | Carried out | Good. |
| R. H. Stell 1 | Guard fly-wheel | Carried out | Good. |
| J. H. Gautier 1 | Guard belts | | Good. |
| Town of Union— | | | |
| A. Baumgartner 1 | Erect fire-escape | Carried out | Good. |
| Clifton Silk Mills 1 | Erect fire-escape | Not erected | Fair. |
| H. Wallace 1 | Guard shafting under sewing machines | Carried out | Good. |
| L. Inderkoff 2 | Guard belts and shafting | Carried out | Good. |
| West Hoboken— | | | |
| John Comby 1 | Guard shafting | Carried out | Good. |
| Oesman & Co 2 | Guard fly-wheel and erect fire-escape | Partly carried out | Fair. |
| J. J. Kennedy 1 | Toilet-room for females | Pending | Fair. |
| Jos. Ratte 1 | Guard gearing | Carried out | Good. |
| B. Fontaine 1 | Guard one belt | Carried out | Good. |
| Favorite Silk Mill 1 | Guard one belt | Carried out | Good. |

## CHANGES ORDERED AND CONDITION OF FACTORIES—FOURTH DISTRICT—Continued.

| LOCATION AND NAME OF COMPANY. | | CHANGES ORDERED. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|---|
| Bayonne— | | | | |
| Tide Water Oil Co. | 2 | Guard fly-wheels and hatch openings | Carried out | Good. |
| Standard Oil Co. | 21 | Guard three fly-wheels, eighteen belts and shafting | Pending | Good. |
| West New York— | | | | |
| Landran Silk Co. | 1 | Main door to open out | Carried out | Good. |
| L. & R. Wilcox Co. | 2 | Guard fly-wheel and vats | Carried out | Good. |
| Arlington Mfg. Co. | 1 | Guard shafting | Carried ont | Good. |
| Harrison— | | | | |
| Lagowitz & Co. | 3 | Guard stair openings, shafting; erect fire-escapes | Not carried out | Not good. |
| Edison Lamp Co | 1 | Guard fly-wheel | Carried out | Good. |
| Stewart Hartzsohn | 1 | Guard stair openings | Carried out | Good. |
| Kearny— | | | | |
| Clark's O. N. T. Co. | 1 | Box all exposed mules in spinning-room | Carried out | Good. |
| G. Winnas | 1 | Guard shafting under sewing machines | Carried out | Good. |
| Nairn Linoleum Co. | 3 | Blower in cork-room; guard one belt and erect fire-escape | Partly carried out | Fair. |
| Clark's Mile End Co. | 1 | Box all exposed mules in spinning-room | Carried out | Good. |
| Hoboken— | | | | |
| Barnes & Hogan | 1 | Toilet-room for females | Pending | Not good. |
| R. Lowry | 2 | Erect fire-escape and remove obstructions from stairways | Partly carried out | Not good. |
| A. Reddlinger | 1 | Guard belts | Carried out | Good. |
| James Reynolds | 1 | Guard one belt | | Good. |
| Wetter & Blumstehli | 1 | Toilet-room for females | | Good. |

## ACCIDENTS REPORTED—FOURTH DISTRICT.

| LOCATION. | NAME. | NAME OF COMPANY. | NATURE AND RESULT OF ACCIDENT. |
|---|---|---|---|
| Harrison..... | Maggie McDonald..... | Marshall Thread Co..... | Caught in spinning machine; scalp wound. |
| " ..... | Catherine Lacey.. ..... | " " " ..... | Caught in carding machine; loss of arm. |
| " ..... | James Hayes..... | Clark's Mile End Works.. | Caught in spinning machine; loss of arm. |
| Jersey City.... | Eugene Kelly..... | Mattheson & Wichers..... | Fell in chimney; suffocated to death. |
| " " .... | Frederick Kissig. / Frederick Klohid | E. A. Gross..... | Explosion of a digester; flesh wounds. |
| " " .... | Fred. Greenwald..... | " " ..... | Explosion of a digester; killed. |
| " " .... | Paul Kohelbars..... | Stuhm's Silk Works..... | Caught on shaft; broken arm. |
| Hoboken..... | A. Bastgan..... / G. Siples..... | Erkenbach Chemical Co.. | Explosion of condenser; severely burned. |
| Harrison..... | John Manning..... | Clark's Mile End Works.. | Caught in spinning machine; loss of arm. |
| Jersey City.... | Godfrey J. Guenthal.. | U. S. Fuel Co ..... | Fell through a vent-hole; killed. |
| " " .... | Patrick Killian..... | Stratsfords Oakum Co..... | Caught in cylinder; loss of arm. |
| " " .... | Thos. Rafferty..... | Lorillard & Co..... | Adjusting a belt on a pulley; loss of arm. |
| " " .... | Michael Bender..... | Pattberg Bros..... | Caught in a circular saw; flesh wound. |
| " " .... | August Feidler ..... | Mattheson & Wichers..... | Struck in the stomach by a shovel thrown by a machine; killed. |
| " " .... | Henry Doake..... / Patrick Kelly..... | Hirstler's Packing House | Bursting of an air chamber; killed. |

# MODEL SCHOOL-HOUSES.

Inspector J. S. Weinthal read the following paper before the convention :

MR. PRESIDENT, LADIES AND GENTLEMEN OF THE CONVENTION—The present age is one in which questions concerning the education of the masses may be said to demand considerable attention. To obtain this end, the important step is to provide buildings suitable for the needs of every branch of education, and so arranged as to facilitate the workings of the several departments.

It is certain that the more these matters are understood, the greater will be the importance attached to them.

The subject of this paper is an all-important one, and it is the purpose of the writer to deal briefly with the several heads which follow, and are without question important factors in the erection of an edifice to be devoted to educational training.

Investigation has shown most conclusively that improved dwellings mean increased length of life and a greater capacity for usefulness and enjoyment. Sound food and pure water are essential to good health. To a much greater extent is it the case with the air we breathe. A deficient or impure supply of air means failing energy of mind and body and general incapacity for the performance of the duties of life; this is particularly so in the case of the young, who need fresh, wholesome food, pure air and moderate exercise.

The selection of a site is of great importance. Let it be in a good, dry, healthy location, where there are but few sewer lines, factories or workshops, which emit noxious gases and pollute the air, and where the noisy clang of hammer and anvil cannot disturb the exercises or thought for study.

The soil should be dry and sandy, not loose, earthy material, from which spring foul gases to permeate the entire building. Low or swampy ground should be avoided; such ground requires additional

cost to provide proper foundation, which expense could with better economy be expended towards a suitable site.

Much study and care are required in the planning or arrangement of the several parts of a well-devised school building. The general plan should be as simple and straightforward as possible; all irregular rooms, passages or eccentricities of plan for purpose of exterior effect, should be avoided.

The main entrance and exits to be wide and on a direct line with staircases. In all cases the doors to open outward and lead direct to main street or to yard or passages which communicate with street.

The school or class-rooms should be of ample size for a maximum capacity of 60 pupils, with an allowance of at least 1,200 cubic feet of air space for each pupil. The arrangement of these rooms to be in direct communication with the main corridors and convenient to staircases for exit.

The question of isolating the class-rooms is dependent on the grade of instruction, and also on the needs of the locality in which the building is erected. In small towns or cities where it is necessary to economize, the class-rooms may be arranged for assembly puposes by means of large, glazed sliding doors, so as to form an assembly-room on each floor.

It is desirable, however, to have a separate room sufficiently large to accommodate the entire school, which shall be used for assembly purposes only.

Play courts for exercise should be provided where the site will not allow of an out-door recreation-ground. These courts should be, if possible, placed on a level with the grade, and well lighted and partly opening into uncovered yard at rear, so as to allow thorough ventilation, and afford, in some measure, the benefits of out-door exercise.

The plumbing and other sanitary work should be as simple and complete as modern improvement can devise.

The system of closets should be of the best manufacture. For this purpose I would recommend an open sink of iron, porcelain lined, with proper valves to regulate an automatic supply from a large tank, and connected on a direct line with main sewer. The space for location of closets to be enclosed in masonry, and not open directly into play courts. Special means of ventilation should be made by flues connected direct to main vent shaft.

Any complicated traps or contrivances which hinder the rapid dis-

charge of sewage are dangerous to health. Every soil-pipe to be carried full size above roof, and will act as ventilator to main sewer line.

It is to be noted that no provision is made for vent of street mains, except openings, which in many cases are placed near windows, thereby allowing foul gases to enter premises.

The traps in all cases to have back air vent, and should open, where practicable, into a common stack.

The supply for school fixtures and for drinking purposes to be independent.

A main water-supply of at least two-inch pipe should be run at two points of building with outlet on each floor, and with a sufficient length of fire-hose coiled ready for use in case of fire. The means at hand and prompt action may avoid a calamity.

Ample wardrobes, placed so as to be accessible and without interfering with the discipline of school, are necessary for each class-room. Separate rooms and wardrobes should be provided for teachers' use.

The suitable and convenient disposition of a staircase has always been regarded as a difficult problem in the planning of a building. Its situation depends on the object of the building and the purposes it is intended to serve.

The location of staircases in many buildings of a public character is too often overlooked; it is often a convenience of plan rather than the convenience and safety of the public.

The stairs in many cases are cramped with awkward landings, and poorly lighted. For a school building, they should be ample in affording speedy exit from each floor, and with more than one entrance, if possible, to stair platform.

By all means have the staircases for pupils fire-proof. These may be of slate or iron (the former, in the writer's opinion, is better), enclosed in brick walls or fire-proof partition blocks, and should be with easy rise and wide platform, and without winders, and with double turn. This latter method has been used in several late improvements in school buildings, and the advantage over long runs will be readily seen.

The staircases should not be narrow; four feet six inches is sufficiently wide, and five feet as a maximum width, unless a central rail is provided. Where staircases of the above width will not permit a speedy exit, it becomes a necessity to provide additional staircases rather than increase the width of one or two.

The staircases, and especially at start and landings, should be well lighted. Dark staircases prove to be veritable stumbling-blocks. A main or public stair should be placed convenient to central portion of building for the public or teachers, and if needed, may be used as an additional exit.

The building in all its parts should be of safe and thorough construction, and of such design as will at first sight clearly indicate its purposes and use.

Owing to necessary economy in many cases, it is quite out of the question to build what is known as a fire-proof building, having iron-beam construction and fire-proof arches, and brick or fire-proof partition walls; but, as already made mention, the stairs should be fire-proof and as little wood-work as possible made use of.

It would be well to consider the method of slow-burning construction, which consists of heavy girders and planking to floor, with concrete filling and fire-stops to prevent spread of fire from floor to floor. Where the necessary funds will allow, the furrings to walls and ceilings and all partitions should be of fire-proof blocking, or at least all plaster put on wire lathing instead of wood laths.

The finish of walls should be in cement, and so as to be made a smooth surface and washable, in order to clean down without injury; the finish of ceiling, if not on fire-block furrings, should be of metal, which is now inexpensive and of pleasing design.

The wall surfaces, where same occur between windows and on partitions, to be finished for blackboard use from sill of window to height of three feet six inches.

In place of the usual wainscot of wood, a finish of mould, on line with the window-sill and the wall, to floor, to be done with Keene's cement, in color, which would not only be durable, but prove effective in checking spread of fire.

The doors from class-rooms to open into spacious corridors; these doors, as well as outside doors, to open outward.

The principal requirements of a school building are light, heat and ventilation. A well-arranged building must necessarily have proper light. The light is dependent upon the location of building, but the arrangement of rooms should be so devised that the light be distributed to the furthest sides of the room, and at the left of the pupil.

The windows should be as wide as construction will permit, and about three feet six inches above floor level, and within a few inches of the ceiling.

Special attention should be given to the lighting of all corridors, and from windows opening into the outer air, or large ventilating skylights.

The subject of heating, or more properly speaking, heating and ventilation, has received much attention, and to-day, in the hands of many, is purely experimental in practicable uses. That the subject is not fully understood, is one reason for the many failures to successfully heat and ventilate buildings of a public character.

Before proceeding to discuss the difficulties of ventilation, let us consider the laws which govern the gases of the atmosphere—seventy-nine per cent. nitrogen, twenty-one per cent. oxygen and one volume of carbonic acid in 2,500 volumes of atmospheric air. Oxygen is the most important, being the sustaining power of animal life, nitrogen acting as a diluent. Air having passed through the lungs becomes changed, the oxygen lessened three to five per cent., and this is replaced by carbonic acid; the nitrogen remains unchanged. An ordinary person makes about twenty respirations a minute, passing at least a pint of air from the lungs at each expiration.

Thus will be seen the necessity of changing the air by which we are surrounded.

The air breathed is warmed, and becomes lighter, and consequently rises and passes away from us.

Carbonic acid gas is about one and one-half times heavier than ordinary air, and the tendency is to separate from the vitiated air and fall to the lower part of the room; this, however, is not always the case, for when mixed with other gases, as air expelled from the lungs and warmed, its property is to rise.

The object of ventilation is to restore the air to its natural purity; that is, to remove the vitiated air and supply fresh air. In some respects this can easily be accomplished, but to do so thoroughly, and without inconvenience to the pupils, is not an easy task.

Ventilation may be considered of two methods—the mechanical and the natural. The former may be successfully carried out where power is provided, and is generally conceded to be the more positive and efficient. With natural ventilation it must be understood that the two columns of air, one warmer and lighter than the other, the lighter ascends and the colder, or heavier, descends.

The air to be expelled must have room supplied by a like amount of air to take its place. There must be an inlet in order that the outlet may work. The problem is the location of these openings.

Experiments have proved that the vitiated air invariably rises to the highest part of the building, and that when proper inlets and outlets are provided the rate at which the air passes through the building is increased in proportion to the height and difference in temperature of the internal column of air over that of the external. The longer and narrower the shaft for carrying off the vitiated air, the better its operation.

The air to be taken from as low a point as convenient, and then discharged into the building as near the floor as shall been found expedient, the vitiated air being taken away at the highest point.

To overcome the difficulty of inconvenience to pupils of taking the air in at floor level, the openings should be conical or wedge-shaped, so as to distribute the air over a large space and without draught.

For large class-rooms, where it is necessary to remove a quantity of air, a large ventilating cowl or a number of cowls should be placed on the roof, with discharge ducts leading to the same from the flues in the rooms. The ventilators to be of such design as will effectually keep out rain and snow, and not merely arranged to prevent down draught, but to be movable and assist by means of the wind-power in drawing off the vitiated air in rooms. Where the motive power is not sufficient the quantity of air passing through may be increased by means of gas jets or coils of steam pipes, placed at base of main stack.

The usual method of heating by means of a chamber in basement having the required heating surface and bringing fresh air in contact with it before it is allowed to enter school-room, is not altogether successful; the air entering rooms is not always fresh and cool, but oppressive, being robbed of its invigorating qualities, because heated in excess of the temperature required to make up loss of heat through the cold surface of pipes, windows and other openings.

The air, by a natural law, rising to the ceiling, its place being filled by cold currents below, the floor is cold, on the principle of the old fire-place.

One of the best systems of direct radiation is by means of small pipes and a series of radiators placed under the windows of the class-rooms and in corridors and other apartments.

In the basement, locate one or two tubular boilers with steam pressure of about five pounds, the steam being conveyed through pipes run along basement ceiling and connected to radiators on each floor, the radiators to have valves for turning off steam at pleasure. The lower

part of the window sash to have a small frame to fall inward and allow the fresh air to enter clear above radiator; this inlet to be regulated so as to diffuse air over the room and to take an upward course, it then falls in gentle volumes, fresh and pure, while the floors and walls on the coldest sides are warmed by direct radiation.

The vitiated air escapes through flues as before suggested, and is carried to shaft or ducts in roof.

In the system of mechanical ventilation, the flues may be constructed on the above principle, and connected to ducts either at ceiling of basement leading into large shaft opening above highest point of roof, or by means of the roof space used as an exhaust chamber. At the outlet of these shafts, either in basement or roof, as the case may be, an exhaust-fan or air-propeller to be placed, and the capacity of flues, ducts or air shaft dependent on the amount of air to be removed, which should not be less than 1,200 to 1,500 cubic feet per hour for each pupil.

The wardrobes, corridors, toilet-rooms, play-courts to be also ventilated as above, and if possible, the wardrobes to have open-air ventilation by means of window.

The upper or transom sash-work of windows should have sash hung at bottom and open inward, so as to give an upward current to the air, and transom sash should be provided to doors and windows, so as to allow cross-ventilation.

Much more could be said in the matter of the several methods now in use for the heating and ventilation of buildings. A simple and inexpensive method has been suggested, which would meet ordinary requirements and prove effectual and serviceable.

The class of building which the author of this paper has in mind would be such as is now being erected in cities and towns throughout the country of from 10,000 to 20,000 population.

The same principles govern every building intended to be occupied by an assemblage of people, whether to be located in a small rural village or in the crowded precincts of a great city.

As before mentioned, let the building of a school-house be as simple in plan and construction as the site will allow. All excessive and costly ornaments should be omitted, and in their place good, enduring material, wrought by skilled artisans into a harmonious and pleasing design, should proclaim the greatness of our homes of free education.

# FIFTH DISTRICT.

*L. T. Fell, Esq.:*

DEAR SIR—I herewith respectfully submit my second annual report, for the year ending October 30th, 1890, showing the many factories inspected, the number of children discharged, the number of accidents and their causes, and the number of permits granted to orphan children to enable them to obtain employment; and, also, the many requests made to have shafting, belts, elevators and machinery guarded, and fire-escapes erected, and the disposition of same. I wish to add here that the manufacturers, with very few exceptions, show a willingness to comply with all the requirements of the laws, that is truly commendable, and shows that they are in full sympathy with them.

I wish to call your attention to one matter that I deem of great importance as far as the Department of Factories, &c., and its relation to the Compulsory Education law are concerned. That is the compelling of children who have been in the very highest class or classes in our schools to attend day or night three months in each year. I think if the law was so amended that a certificate showing a proficiency in the branches taught in the higher classes would be sufficient to enable the holder of said certificate from attending school. I also think it would be a great help in the cause of education to allow no child to work in any mill or elsewhere, unless such child could read and write.

Respectfully submitted,

THOS. COGAN,
*Deputy Inspector.*

## FACTORIES INSPECTED—FIFTH DISTRICT.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Paterson | R. & H. Adams | Cotton and silk | 235 | 430 | 18 | ..... |
| " | Ashley & Bailey | Silk | 350 | 350 | 25 | ..... |
| " | Australian Knitting Co | Hosiery | 2 | 13 | 1 | ..... |
| " | Wm. Blackburn | Paper boxes | 5 | 14 | 3 | ..... |
| " | Wm. Ball | Silk | 10 | 5 | 2 | ..... |
| " | Henry L. Butler | " | 7 | 23 | 1 | ..... |
| " | Bamford Bros | " | 150 | 270 | 30 | 1 |
| " | Butler Silk Mfg. Co | " | 10 | 15 | 3 | ..... |
| " | Barbour's Mills | Thread | 544 | 870 | 180 | ..... |
| " | P. & J. Bannington | Silk | 25 | 50 | 3 | ..... |
| " | Beggs Steam Heating Co. | Steam heaters | 30 | ..... | ..... | ..... |
| " | J. Brauns | Brewery | 14 | ..... | ..... | ..... |
| " | Comforth & Marx | Silk | 45 | 20 | 4 | ..... |
| " | Alfred Crew | " | 24 | 8 | 2 | ..... |
| " | Cook's Locomotive Works | Locomotives | 600 | ..... | ..... | ..... |
| " | Peter Casper | Silk | 75 | 25 | ..... | ..... |
| " | J. Crossly | Card cutter | 5 | ..... | ..... | ..... |
| " | Cardinal & Becker | Silk | 50 | 50 | 2 | ..... |
| " | Columbia Silk Co | " | 12 | 15 | 3 | ..... |
| " | Clay & Groococks | " | 100 | 100 | 4 | ..... |
| " | Andre Cardinal | " | 100 | 150 | 4 | ..... |
| " | Wm Cochran | Card cutter | 7 | ..... | 3 | ..... |
| " | Domestic Tapestry Co | Silk tapestry | 39 | 11 | 2 | ..... |
| " | Dexter & Lambert | Silk | 200 | 450 | 35 | ..... |
| " | Doherty & Wadsworth | " | 175 | 175 | 3 | ..... |
| " | Dolphin Mill | Jute | 300 | 500 | 175 | ..... |
| " | Equity Silk Co | Silk | ... | ..... | ..... | ..... |
| " | Enterprise Silk Co | " | 10 | 20 | ..... | ..... |
| " | Empire Silk Co | " | 70 | 70 | ..... | ..... |
| " | Benj. Eastwood | Machinery | 300 | ..... | ..... | ..... |
| " | Frank & Dugan | Silk | 54 | 56 | 10 | ..... |
| " | Florence Silk Co | " | 50 | 50 | 4 | ..... |
| " | —— Fritch | " | 10 | 20 | ..... | ..... |
| " | B Feeney | Cigars | 18 | ..... | ..... | ..... |
| " | Grimshaw Bros | Silk | 335 | 400 | 17 | 2 |
| " | Grimshaw Mfg. Co | " | 44 | 31 | 5 | ..... |
| " | M. J. Green | " | 8 | 17 | 2 | ..... |
| " | Gregory Silk Mfg. Co | " | 15 | 40 | 1 | ..... |
| " | Graham & Co | Brewery | 48 | ..... | ..... | ..... |
| " | John Grish | Silk | 14 | 4 | ..... | ..... |
| " | A. Giannette | " | 50 | 30 | 5 | ..... |
| " | Hamil Mill | " | 220 | 80 | 22 | ..... |
| " | Hamil & Booth | " | 165 | 135 | 21 | ..... |
| " | Haley & Healy | " | 21 | 19 | 10 | ..... |
| " | M. J. Hawkes & Co | " | 45 | 30 | 1 | ..... |
| " | Hess, Goldsmith & Co | " | 50 | 100 | 7 | ..... |
| " | Horandt & Son | " | 75 | 175 | 11 | ..... |
| " | Hopper & Scott | " | 75 | 75 | 30 | ..... |
| " | John Hand & Sons | " | 42 | 42 | 4 | ..... |
| " | Helvetia Mill | " | 73 | 57 | 3 | ..... |
| " | Thomas Henshall | " | 26 | 20 | 7 | ..... |
| " | W. D. Holmes | " | 50 | 25 | 11 | ..... |
| " | Hinchcliff Bros | Brewery | 4 | ..... | 1 | ..... |
| " | F. Harding | Paper boxes | 8 | 17 | 12 | 5 |
| " | I. A. Hall & Co | Mill supplies | 50 | 80 | 12 | 1 |
| " | Hassall & Co | Silk | 4 | 16 | 2 | ..... |
| " | Hayes Mfg. Co | Copper and brass | 8 | ..... | ..... | ..... |
| " | Imperial Tapestry Co | Silk tapestry | 13 | 2 | ..... | ..... |
| " | Jackson & Jacquard | Machinery | 35 | ..... | ..... | ..... |
| " | Johnson, Cowdin & Co | Silk | 175 | 175 | 14 | 2 |
| " | Katz Bros | Brewery | 54 | ..... | ..... | ..... |
| " | Kearny & Foote | Files | 190 | ..... | ..... | ..... |
| " | Lyons Silk Co | Silk | 25 | 5 | 1 | ..... |

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## FACTORIES INSPECTED—FIFTH DISTRICT—Continued.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Paterson | David Lyndsay | Silk | 5 | 6 | ..... | ..... |
| " | Mackay & Rawson | " | 37 | 23 | 12 | 1 |
| " | McAllister & Co | " | 40 | 37 | 6 | ..... |
| " | R. Meick & Co | " | 50 | 50 | 6 | ..... |
| " | C. R. Meding & Co | " | 120 | 110 | 11 | ..... |
| " | Wm. F. Milton & Co | " | 7 | 8 | 4 | ..... |
| " | McGill & Farnhurst | " | 19 | 7 | 2 | ..... |
| " | McLaughlin Bros | Silk braid | 2 | 33 | 2 | ..... |
| " | McNab & Harlan | Brass goods | 282 | 18 | 15 | ..... |
| " | Geo. H. Meisterman | Ribbon blocks | 18 | ..... | 8 | ..... |
| " | Manhattan Shirt Mills | Shirts | 125 | 200 | 25 | ..... |
| " | Nightingale Bros., old mill | Silk | 50 | 50 | 18 | ..... |
| " | " " new mill | " | 60 | 190 | 5 | ..... |
| " | New York Silk Co | " | 32 | 33 | 2 | ..... |
| " | N. Y. Extract of Wool Co | Shoddy | 20 | 25 | 3 | ..... |
| " | New Jersey Silk Co | Silk | 40 | 75 | 7 | ..... |
| " | Newberger & Co | " | 40 | 80 | 4 | ..... |
| " | Oldham Fabric Co | " | 50 | 28 | ..... | ..... |
| " | Paragon Silk Co | " | 45 | 95 | 12 | ..... |
| " | Paris Silk Co | " | 9 | 5 | ..... | ..... |
| " | Pioneer Silk Co | " | 300 | 300 | 50 | ..... |
| " | Phœnix Mill | " | 300 | 300 | 32 | ..... |
| " | Progress Mill | " | 50 | 50 | 5 | ..... |
| " | Pelgram & Myers | " | 300 | 200 | 11 | ..... |
| " | Paterson Ribbon Co | " | 85 | 40 | 2 | ..... |
| " | Peerless Plush Co | Plush | 58 | 12 | 3 | ..... |
| " | Passaic Knitting Co | Hosiery | 2 | 14 | 12 | ..... |
| " | M. Price | Shirts | 90 | 128 | 20 | ..... |
| " | Ramsey & Gore | Silk | 90 | 50 | 8 | ..... |
| " | J. C. Ryle & Co | " | 20 | 53 | ..... | ..... |
| " | Reid & Lovett | " | 40 | 46 | 22 | ..... |
| " | Wm. Robertson | " | 40 | 25 | ..... | ..... |
| " | Rittger, Allen & Co | " | 6 | 40 | 3 | ..... |
| " | Jno. Royl & Son | Machinery | 40 | ..... | ..... | ..... |
| " | Rogers Locomotive Works | Locomotives, &c | 700 | ..... | ..... | ..... |
| " | Riverside Plastic Co | Chess, dominoes and checkers | 28 | 12 | 4 | ..... |
| " | C. F. Richer | Silk waste | 2 | 22 | 4 | ..... |
| " | Star Silk Co | Silk | 25 | 5 | 1 | ..... |
| " | Wm. Strange Co | " | 450 | 400 | 30 | ..... |
| " | Jno. Simpson & Co | " | 44 | 12 | 2 | ..... |
| " | Schultz & Swartz | " | 12 | 33 | 2 | ..... |
| " | Silberman & Co | " | 100 | 150 | 10 | ..... |
| " | Sutherland & Edwards | Jute | 22 | 38 | 3 | ..... |
| " | Spratler & Menell | Brewery | 19 | ..... | ..... | ..... |
| " | J. C. Todd & Co | Jute | 15 | 12 | 3 | ..... |
| " | " " " | Machinery | 200 | ..... | ..... | ..... |
| " | Samuel Thorpe | Silk | 18 | 28 | 7 | 1 |
| " | J. W. Taylor & Co | " | 8 | 18 | 1 | ..... |
| " | S. B. Thompson | Paper boxes | 12 | ..... | ..... | ..... |
| " | J. Tynan | Silk | 4 | 12 | 1 | ..... |
| " | Union Silk Co | " | 20 | 40 | 6 | ..... |
| " | F. Ulrich | Mill supplies | 11 | 14 | 1 | ..... |
| " | Van Riper & Co | Silk | 30 | 30 | 4 | ..... |
| " | " " | Mill supplies | 25 | ..... | 1 | ..... |
| " | Van Houten Bros | Saw-mill | 40 | ..... | ..... | ..... |
| " | Watson Machine Co | Machinery | 125 | ..... | ..... | ..... |
| " | J. Walder | Mill supplies | 65 | 65 | 6 | ..... |
| " | J. B. Ward | Brushes | 13 | ..... | ..... | ..... |
| " | Westerhoff & Co | Silk | 11 | 3 | 1 | ..... |
| Passaic | A. N. Ackerman | Sash, blinds, &c | 18 | ..... | ..... | ..... |
| " | Bottany Mill | Worsteds | 50 | 250 | 18 | ..... |
| " | L. Binns | Foundry | 10 | ..... | ..... | ..... |

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## FACTORIES INSPECTED—FIFTH DISTRICT—Continued.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Passaic | Dundee Chemical Works | Chemicals | 40 | | | |
| " | Dundee Woolen Co | Woolens | 83 | 35 | 12 | |
| " | A. Ehman | Cigars | 16 | 2 | | |
| " | Manhattan Print Works | Satinets | 120 | 5 | 3 | |
| " | Andrew McLean Mill | Mosquito netting, &c | 200 | 50 | | |
| " | N.Y. Belting and Packing Co. | Rubber goods | 160 | 40 | 10 | 1 |
| " | N. Y. Okanite Co | Electric wires and cables | 200 | 85 | 20 | |
| " | J. A. Oakly | Machinery | 5 | | | |
| " | Passaic Print Works | Calico prints | 390 | 60 | 10 | |
| " | Passaic Woolen Co | Woolen goods | 55 | 50 | 5 | |
| " | Passaic Electric Light and Heating Co | Electric light, cars, &c | 13 | | | |
| " | Pitkin & Holdsworth | Worsteds | 135 | 50 | 10 | |
| " | Reid & Barry | Cotton goods | 635 | 115 | 11 | |
| " | Rittenhouse Mfg. Co. | Shawls, blankets, &c | 200 | 250 | 18 | |
| " | R. B. Saunders | Machinery | 6 | | | |
| " | Domestic Gas Machine Co. | Gas machines | 11 | | | |
| Clifton | American Washable Wall Paper Co | Wall paper | 18 | | 1 | |
| " | Goodlatte Oil-Cloth Co | Oil-cloth | 25 | | 2 | |
| Butler | Butler Hard Rubber Co | Combs, &c. | 375 | 200 | 50 | |
| Little Falls | Beaty Carpet Mfg. Co | Carpets | 75 | 100 | 8 | |
| Boonton | Pelgram & Meyers | Silk | 124 | 101 | 30 | |
| Lodi | Armitage Oil Cloth Co | Oil-cloth | 10 | | | |
| " | Burns Bros | Bleachery | 35 | 65 | 3 | |
| " | Lodi Chemical Works | Chemicals | 25 | | | |
| Midland Park | Holt Bros. & Co | Silk | 18 | 22 | | |
| " " | A. Hengerveldt, Jr | " | 30 | 70 | 5 | |
| Hackensack | Ben J. Cooper & Co | Brick | 55 | | | |
| " | Felter Bros | " | 42 | | | |
| " | J. F. Gillies | " | 57 | | | |
| " | M. J. Gardiner | " | 45 | | | |
| " | J. H. Handfield | " | 38 | | | |
| " | Walls & Brown | " | 30 | | | |
| " | S. A. Smults | " | 43 | | | |
| " | Givernaud Bros | Silk | 170 | 80 | 10 | |
| " | Riverside Planing Mill | Saw-mill | 10 | | | |
| " | Ackerman Planing Mill | " " | 11 | | | |
| " | Empire Tile Stove Co | Stoves | 10 | | | |
| Nordhoff | Opaque Cloth Co | Cloth | 15 | 3 | | |
| Lyndhurst | Duckert Portable House Co. | Portable houses | 40 | | 3 | |
| " | McKee & Harrington | Tricycles, &c | 95 | 15 | 5 | |
| Rutherford | Jaeger & Co | Tinware | 10 | | | |
| Carlton Hill | Standard Bleachery | White goods | 100 | 50 | 5 | |
| Wallington | Anderson, Nickerson & Co. | Saw-mill | 20 | | | |
| Carlstadt | Carlstadt Watch Spring Co. | Watch springs | 8 | | | |
| " | Christie & Nailer | Shoes | 30 | 15 | 5 | |
| " | Klabers Marble Works | Marble | 50 | | | |

## CHANGES ORDERED AND CONDITION OF FACTORIES—FIFTH DISTRICT.

| LOCATION AND NAME OF COMPANY. | CHANGES ORDERED. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|
| Paterson— | | | |
| W. H. Blackburn | Fire-escape on Progress Mill | Not complied with | Unsafe. |
| Andre Cardinal | Belts guarded | Not complied with | New mill. |
| M. J. Green | Fire-escape | Obeying orders | Good. |
| Horandt & Son | Fire-escape | Promised to comply | Good. |
| Helvetia Mill | Fire-escape | Promised to comply | New mill. |
| Johnson, Cowdin & Co. | Belt guarded | Complied with | New mill. |
| McNabb & Harlan | Guard elevator | Complied with | Good. |
| Newberger & Co. | New water-closets | Complied with | Fair. |
| Oldham Fabric Co. | Fire-escape or stairway | Promised to comply | New mill. |
| J. C. Todd & Co. | Guard elevator | Promised to comply | Fair. |
| Passaic— | | | |
| Rittenhouse Mfg. Co. | Guard belts | Promised to comply | Fair. |
| N. Y. Okanite Co. | Guard belts | Complied with | New mill. |
| Lodi— | | | |
| Burns Bros'. Bleachery | Guard belts and elevator | Complied with | New mill. |
| Carlton Hill— | | | |
| Standard Bleachery | Box shafting | Promised to comply | Fair. |
| Paterson— | | | |
| Peerless Plush Co | Fire-escape | Not complied with | New mill. |

## ACCIDENTS REPORTED—FIFTH DISTRICT.

| LOCATION. | NAME. | NAME OF COMPANY. | NATURE AND RESULT OF ACCIDENT. |
|---|---|---|---|
| Paterson.... | Michael Leonard... | Adams Mills ..... | Hand injured in carding machine. |
| Passaic ..... | H. McGill..... ..... | N. Y. Belting and Packing Co.. | Foot crushed in cracker machine. |
| " ..... | A. Van Keuren..... | N. Y. Okanite Co..... | Thumb crushed in strip-cutting machine. |

# SIXTH DISTRICT.

*L. T. Fell, Inspector:*

SIR—I respectfully submit the annual report of the Deputy Inspector of Factories and Workshops of the Sixth District of this department, for the year ending October 31st, 1890.

There has been a general willingness shown during the past year by the owners of factories and workshops not only to comply with all the requirements of the factory laws, but also to co-operate with the Inspector in the strict observance of the Compulsory Education act.

Very few if any children can now evade it, as the increased attendance at evening schools can testify, the total number compelled to attend during the past year being over five hundred.

I take this occasion to return thanks to the truant officer, Albert J. Haynes, whose report is here appended, for the able assistance he has rendered me and for the prompt manner in which he has attended every case I have sent him for investigation. The workings of the truant department in this city should be commended to all communities where none now exists, and steps should be taken immediately to have truant departments established in all the towns and villages of this district.

The total number of accidents that occurred during the past year is twenty-four, several of them of a slight nature, and four of which resulted in death. The following list contains the names of persons injured:

| | |
|---|---|
| Alexanderia Van Berg | Hand caught in iron rollers. |
| Wm. Keeley | Arm lost while attempting to put belt on pulley. |
| Pat'k Solomon | Side torn by metal spike in iron castings. |
| Max Baur | Hand crushed in cutting machine. |
| Tobias Komoritz | Arm broken while putting belt on pulley. |
| Theodore Debus | Burned by melted metal. |
| Robert Brown | Foot crushed between steam rollers. |
| Wm. Laughlin | Hand cut by circular saw. |

| | |
|---|---|
| John Greubzel | Foot crushed between steam rollers. |
| Andrew Walton | Fingers taken off in gearing. |
| Wm. Porter | Burned by falling on hot metal. |
| Edward Eckert | Hand taken off by circular saw. |
| Thos. Haythorn | Arm taken off in carding machine. |
| Haskill Weiss | Foot crushed in elevator. |
| J. O. Rend | Arm broken in elevator shaft. |
| Thos. Purcell | Fingers lost on stamping machine. |
| Christian Lutz | Crushed on elevator. |
| Chas. Whealing | Fingers lost on facing machine. |
| Chas. Lorenzo | Hand crushed between rollers. |
| John Moore | Fell down elevator shaft; killed. |
| James B. Gormon | Fell off step ladder; died in three days. |
| Henry Dolphin | Fell down elevator shaft; killed. |
| Adolph Hinderer | Caught in elevator; killed. |
| Sofus Olsen | Killed by elevator falling. |

| | |
|---|---|
| Number of children found at work in factories under legal age, and discharged by Inspector | 34 |
| Number of factories inspected | 608 |
| Number of orders given in factories | 131 |
| Number of orders complied with up to date | 88 |

All of which is respectfully submitted,

P. CALLAN,

*Deputy Inspector, Sixth District.*

# REPORT OF TRUANT OFFICER.

NEWARK, N. J., January 1st, 1890.

*To the Honorable Board of Police Commissioners:*

GENTLEMEN—I herewith submit my report of the business of this office from September 1st to December 31st, 1889.

There have been six hundred (600) names of truant children sent to me for investigation, from the following sources, viz.:

| | |
|---|---|
| Number of truant children reported from public schools (day) | 104 |
| Number of truant children reported from public schools (night) | 145 |
| Number of truant children reported from private schools | 140 |
| Number of children reported from Factory Inspector | 211 |
| Total | 600 |

These cases have been investigated by me, notices served on the parents or guardians of the children, as required by law, and were disposed of in the following manner, viz.:

| | |
|---|---|
| Number of children returned to school | 569 |
| Number of boys arrested, returned to their parents and then to school | 8 |
| Number of children sent to City Home (boys) | 19 |
| Number of children sent to City Home (girls) | 4 |
| Total | 600 |

Respectfully submitted,

ALBERT J. HAYNES,
*Truant Officer.*

## FACTORIES INSPECTED—SIXTH DISTRICT.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Newark | Electric Accumulator Co | Accumulators | 70 | | | |
| " | Safety Alarm Co | Safety alarms | 9 | | | |
| " | Asphaltic Roofing Co | Asphaltic roofs | 20 | | | |
| " | Tucker Letter and File Co | Automatic suspension cabinets | 15 | | | |
| " | Wm. T. Mersereau | Brass bedsteads | 220 | 10 | 18 | |
| " | C. M. Theabreath | " mountings | 40 | | | |
| " | Cahoun & Barnett | " saddlery hardware | 11 | 110 | 8 | |
| " | B. Conlan & Co | " ornaments | 30 | 40 | 10 | |
| " | George Havell | " " | 175 | 75 | 12 | |
| " | Riley & Osborn | " " | 300 | 100 | 20 | |
| " | Richard Sims | " and metal goods | 15 | | | |
| " | Thomas H. Brown | " mouldings | 10 | | | |
| " | James E. Mergott | " frames | 48 | 2 | 10 | |
| " | M. Gould & Son | " stair rods | 60 | 7 | | |
| " | Goverts & Co | " frames | 75 | 30 | 10 | 4 |
| " | Defanz & Co | " saddlery hardware | 25 | 5 | | |
| " | Newark Novelty Co | " ornaments | 20 | 4 | | |
| " | C. P. Gould | " | 10 | 10 | 4 | |
| " | Schailing's | " frames | 10 | | | |
| " | Durning & Co | " | 10 | | | |
| " | Devlin Bros | " mouldings | 5 | | 1 | 1 |
| " | Heller & Co | Dyeing and coloring | 10 | 5 | | |
| " | Eggen & Co | Traveling bags | 30 | 35 | | |
| " | R. C. Jenkinson | Bag frames | 100 | | 6 | |
| " | Neuman & Co | " " | 80 | | 10 | |
| " | Mumberg & Co | Buttons | 25 | 75 | 9 | 2 |
| " | Thomas Davis | " | 55 | 5 | | |
| " | Hubner & Son | " and pearl jewelry | 38 | 12 | | |
| " | McCuthon & Crane | Metal buttons | 30 | 30 | | |
| " | Henry Smith | Buttons | 14 | 4 | | |
| " | Frank & Co | " | 30 | 120 | 15 | |
| " | Pearsols Button Co | " | 50 | | | |
| " | F. Frentz | " | 13 | 19 | 4 | 1 |
| " | Toms & Read | Metal buttons | 6 | 15 | | |
| " | William Donovan | " " | 25 | 45 | | |
| " | New Jersey Button Co | " " | 70 | 75 | 10 | 2 |
| " | H. M. Yates & Co | Buttons | 12 | 8 | | |
| " | Finan & Matthew | " | 10 | | | |
| " | Otto Breintz | Bell handles | 15 | | 5 | |
| " | Albrecht & Koch | Bookbinding | 25 | 10 | | |
| " | Godfried Kreuger | Lager beer | 100 | | | |
| " | Wm. Hill | " " | 37 | | | |
| " | Ballentine & Co | " " | 60 | | | |
| " | Ballentine & Co | Beer and ale | 170 | | | |
| " | Joseph Hensler | Lager beer | 55 | | | |
| " | Charles Trefz | " " | 44 | | | |
| " | George W. Weidemayer | " " | 15 | | | |
| " | F. J. Kastner | " " | 50 | | | |
| " | J. Feigenspan | " " | 65 | | | |
| " | Home Brewing Co | " " | 25 | | | |
| " | Fred. Lisensky | " " | 23 | | | |
| " | Lyon & Sons | Beer and ale | 50 | | | |
| " | Newark Purse Frame Co | Brass frames | 40 | 12 | 10 | |
| " | Wm. P. Mockridge | " goods and jewelry | 9 | 7 | | |
| " | Wm. Titus | Baking | 100 | | | |
| " | Mangle & Schmidt | " | 80 | | | |
| " | Fritsche's | " | 40 | | | |
| " | Adam Turkes | " | 40 | | | |
| " | U. S. Butter Extractor Co | Butter extractors | 22 | | | |
| " | J. D. Marquett | Packing boxes | 30 | 35 | | |
| " | Gauch & Co | " " | 85 | 65 | 16 | 5 |
| " | Charles Osborn | Paper boxes | 15 | 30 | 2 | |

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1662 1000 180 15

## FACTORIES INSPECTED—SIXTH DISTRICT—Continued.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Newark | John Davidson | Paper boxes | 15 | 60 | 4 | ..... |
| " | Mergot, Howell & Co | Fancy boxes | 20 | ..... | 4 | ..... |
| " | Charles Appel & Son | Cigar boxes | 10 | 14 | ..... | ..... |
| " | E. T. Hart | Paper boxes | 13 | 50 | ..... | ..... |
| " | C. W. Conery | Brushes | 5 | 12 | ..... | ..... |
| " | E. W. Dixon's | " | 23 | 30 | 5 | ..... |
| " | Joseph Baldwin | Bits and spurs | 20 | ..... | 6 | ..... |
| " | Wm. Blum | Buckles | 6 | ..... | 3 | ..... |
| " | Wm. A. Burtzenhoffer | Cigars | 8 | ..... | ..... | ..... |
| " | Joseph G. Glutting | " | 6 | ..... | ..... | ..... |
| " | H. Donaldson | " | 10 | ..... | ..... | ..... |
| " | Fridenthal & Adler | " | 11 | ..... | ..... | ..... |
| " | Wm. Salter | " | 2 | 5 | ..... | ..... |
| " | J. B. Axt | " | 7 | ..... | ..... | ..... |
| " | Crawford & Co. | " and tobacco | 5 | 45 | 7 | ..... |
| " | H. Howarth | " | 8 | 22 | ..... | ..... |
| " | Wm. Kraft | Clothing | 20 | 130 | 8 | 1 |
| " | Jacob Meyer | " | 30 | 100 | ..... | ..... |
| " | Hammerslough Bros | " | 25 | 65 | 10 | 1 |
| " | John B. Dieffenthaler | " | 12 | 30 | 1 | ..... |
| " | Charles H. Curtis | " | 7 | 18 | 1 | ..... |
| " | Wenzel Koska | " | 14 | 28 | 10 | 2 |
| " | Peter Geiger | " | 40 | 100 | 4 | ..... |
| " | John Fleming | " | 5 | 20 | 2 | ..... |
| " | A. Steiner | " | 10 | 20 | 8 | ..... |
| " | Jacob Schmidt | " | 3 | 10 | ..... | ..... |
| " | George Miller | " | 4 | 26 | ..... | ..... |
| " | Chris. Arnold | " | 3 | 8 | 1 | 1 |
| " | William Leven | " | 12 | 6 | ..... | ..... |
| " | Joseph Hass | " | 4 | 8 | ..... | ..... |
| " | Martin Singer | " | 4 | 9 | ..... | ..... |
| " | M. Kogel | " | 2 | 8 | ..... | ..... |
| " | Philip Rothger | " | 5 | 15 | ..... | ..... |
| " | George Braun | " | 2 | 8 | ..... | ..... |
| " | George Heller | " | 3 | 9 | 1 | 1 |
| " | A. Brutchman | " | 15 | 10 | ..... | ..... |
| " | Philip McDonnell | " | 5 | 10 | ..... | ..... |
| " | John Heabley | " | 8 | 8 | ..... | ..... |
| " | M. Freeman | " | 3 | 7 | 3 | ..... |
| " | John Fried | " | 25 | 25 | 3 | ..... |
| " | Philip Berz | " | 20 | 5 | ..... | ..... |
| " | J. Thumo | " | 39 | 6 | ..... | ..... |
| " | Mrs. Van Riper | " | 5 | 19 | ..... | ..... |
| " | John H. Wheaton | " | 4 | 11 | ..... | ..... |
| " | F. H. Wismer | " | 100 | 200 | ..... | ..... |
| " | John Henning | " | 5 | 20 | 3 | ..... |
| " | Continental Corset Co. | Corsets | 15 | 385 | 10 | 2 |
| " | James Bowers & Co | " | 14 | 386 | 8 | 5 |
| " | Ferris Bros. | " | 12 | 188 | 2 | 1 |
| " | Crotty Bros. | " | 2 | 58 | ..... | ..... |
| " | Wingarten Bros. | " | 1 | 74 | 1 | ..... |
| " | Bristol Corset Co. | " | 3 | 72 | 5 | 2 |
| " | Whiting & Smartwood | " | 1 | 24 | 1 | 1 |
| " | Wright's | Corset steels | 2 | 28 | 14 | 3 |
| " | G. W. Jackson | Corsets | 5 | 120 | 4 | 1 |
| " | John Bea | Horse collars | 28 | ..... | ..... | ..... |
| " | Newark Lime & Cement Co. | Cement | 80 | ..... | ..... | ..... |
| " | John Kersing | Composition | 5 | 20 | ..... | ..... |
| " | D. S. Plumb | Clock-works | 30 | ..... | ..... | ..... |
| " | Bannister's | Cutlery | 30 | 20 | 10 | ..... |
| " | Robert Meyer | Chemicals | 6 | ..... | ..... | ..... |
| " | Passaic Chemical Co. | " | 30 | ..... | ..... | ..... |
| " | Union Chemical Co. | " cream of tartar | 17 | ..... | ..... | ..... |

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888 1,428 341 21

## FACTORIES INSPECTED—SIXTH DISTRICT—Continued.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Newark | Charles Cooper & Co. | Chemicals | 68 | 2 | ..... | ..... |
| " | James Quimby. | Carriages | 100 | ..... | ..... | ..... |
| " | Wm. Streby. | Carriage hardware | 60 | 5 | ..... | ..... |
| " | Celluloid Novelty Co | Celluloid | 200 | 300 | ..... | ..... |
| " | Celluloid Mfg. Co. | " | 150 | ..... | ..... | ..... |
| " | Celluloid Brush Co | " | 150 | 50 | ..... | ..... |
| " | Storms' Factory. | Elevators | 15 | ..... | ..... | ..... |
| " | Eureka Cement Co | Cement | 5 | ..... | ..... | ..... |
| " | Central R. R. Car Co. | Cars | 100 | ..... | ..... | ..... |
| " | Hiller & Co | Dyeing and coloring | 10 | 5 | ..... | ..... |
| " | Hemmer Bros. | Desks | 60 | ..... | ..... | ..... |
| " | Benjamin Bros. | Dress extenders | 1 | 59 | 5 | ..... |
| " | H. Borneman | Embroidery | 8 | 59 | 5 | 2 |
| " | Thomas & George Stone | Engraving | 50 | ..... | ..... | ..... |
| " | A. Schluter & Co. | " | 15 | ..... | ..... | ..... |
| " | U. S. Electric Light and Power Co. | Electric light and power | 300 | 60 | ..... | ..... |
| " | Elastic Hair Co | Elastic hair | 20 | ..... | ..... | ..... |
| " | Bradley & Craig. | Engraving | 20 | ..... | ..... | ..... |
| " | Spencer Optical Co | Eyeglasses | 104 | 16 | 15 | ..... |
| " | Lister Bros. | Fertilizers | 470 | 30 | ..... | ..... |
| " | Wilkinson, Gaddis & Co. | Flour | 15 | ..... | ..... | ..... |
| " | F. F. Lane. | Fertilizers | 122 | 3 | ..... | ..... |
| " | H. S Miller | " | 160 | 9 | ..... | ..... |
| " | Heller Bros. | Files and rasps | 125 | ..... | ..... | ..... |
| " | John Ray | " " | 30 | ..... | ..... | ..... |
| " | L. Schaff & Co. | Gilt mouldings | 15 | ..... | ..... | ..... |
| " | Newark Gas Co. | Gas | 60 | ..... | ..... | ..... |
| " | Citizens Gaslight Co. | " | 50 | ..... | ..... | ..... |
| " | Baulback & Co. | Gold and silver smelting | 62 | ..... | ..... | ..... |
| " | Lee Long Bros. | Gold refining | 12 | ..... | ..... | ..... |
| " | Meyer Mercy | Hats | 70 | 25 | 2 | ..... |
| " | Yates & Wharton | " | 240 | 60 | ..... | ..... |
| " | Wheeler & Russell. | " | 175 | 25 | ..... | ..... |
| " | Ferry & Napier | " | 130 | 70 | ..... | ..... |
| " | Meyer Mercy | " | 235 | 65 | ..... | ..... |
| " | Joseph Schuman | " | 120 | 30 | ..... | ..... |
| " | C. F. Seitz & Son. | " | 90 | 35 | ..... | ..... |
| " | J. Rummel & Son. | " | 95 | 35 | ..... | ..... |
| " | G. M. Espenscheid. | " | 76 | 24 | ..... | ..... |
| " | Wheeler & Russell. | " | 85 | 15 | ..... | ..... |
| " | Albert Seitz | " | 26 | 14 | ..... | ..... |
| " | David Wolf | " | 35 | 25 | ..... | ..... |
| " | Wm. H. Neary | " | 50 | 25 | ..... | ..... |
| " | James Flish & Co | " | 35 | 25 | ..... | ..... |
| " | James Robertson | " | 35 | 25 | ..... | ..... |
| " | C. M. Hedden & Co. | " | 270 | 30 | ..... | ..... |
| " | G M. Mason | " | 80 | 20 | ..... | ..... |
| " | Bernard Daly | " | 63 | 10 | ..... | ..... |
| " | C. M. Hedden, Park Ave | " | 35 | 16 | ..... | ..... |
| " | Tyler Parmly | " | 15 | 5 | ..... | ..... |
| " | T. S Carley | " | 160 | 20 | ..... | ..... |
| " | H. Fulcher | " | 58 | 8 | ..... | ..... |
| " | Thomas Nickols | " | 30 | 30 | ..... | ..... |
| " | Budich & Zudizky | " | 40 | ..... | ..... | ..... |
| " | Fairchild's | " | 88 | 35 | ..... | 1 |
| " | Joseph Mercy | " | 70 | 20 | ..... | ..... |
| " | Elliston's | " | 60 | 24 | ..... | ..... |
| " | Meyer Mercy Mfg. Co. | " | 100 | 10 | 2 | ..... |
| " | Meyer Mercy, Scott St. | " | 200 | 50 | 10 | ..... |
| " | George Zute | " and hat machinery | 100 | 3 | 2 | ..... |
| " | Jarvis & Co. | " | 70 | 35 | ..... | ..... |
| " | Kohn & Mercy. | " | 60 | 15 | ..... | ..... |

## FACTORIES INSPECTED—SIXTH DISTRICT—Continued.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Newark | P. McKeon | Hats | 36 | 12 | 2 | ..... |
| " | Mooney's Hat Factory | " | 60 | 25 | ..... | ..... |
| " | Hermon's Factory | " | 50 | 20 | ..... | ..... |
| " | McClair & Davis | Straw hats | 10 | 40 | ..... | ..... |
| " | Mirk & Romberg | " " | ..... | ..... | ..... | ..... |
| " | Rutan & Pond | " " | 14 | 30 | 10 | ..... |
| " | Douglass Forming Mill | Hat forming | 80 | 10 | ..... | ..... |
| " | Phiffer & Co | " " | 25 | 12 | ..... | ..... |
| " | Oscar Welligerode | " " | 27 | 10 | 1 | ..... |
| " | J. H. Herman & Co | " blocks | 18 | ..... | ..... | ..... |
| " | R. C. Winters | Harness | 80 | ..... | 4 | ..... |
| " | Peter Calhoun & Co | " | 235 | 15 | ..... | ..... |
| " | Demerest & Co | " | 90 | ..... | ..... | ..... |
| " | Wm. Crabb & Co | " | 17 | ..... | ..... | ..... |
| " | F. F. Beck & Son | " | 111 | ..... | 1 | ..... |
| " | F. W. Bonneau | " | 27 | 3 | ..... | ..... |
| " | Butler & Ward | " trimmings | 18 | 25 | ..... | ..... |
| " | S. S. Sargeant & Co | " " | 74 | 26 | 8 | ..... |
| " | A. Albright | " " | 100 | 125 | ..... | ..... |
| " | P. Hayden | " " | 100 | 7 | ..... | ..... |
| " | Mahony & Clark | Saddlery hardware | 14 | ..... | ..... | ..... |
| " | Newark Star Heel Plate Co | Heel plates | 10 | 4 | ..... | ..... |
| " | Smith Brothers | Harness and saddlery | 17 | 3 | ..... | ..... |
| " | Wm. Crabb & Co | Hackle pins | 20 | 10 | 8 | 4 |
| " | Baeder, Adamson & Co | Hair felt | 48 | 12 | ..... | ..... |
| " | Tomkins & Manderville | Harness | 100 | ..... | ..... | ..... |
| " | Kuhnhold & Co | " trimmings | 30 | 2 | ..... | ..... |
| " | Sloan & Chace | Instruments | 70 | ..... | ..... | ..... |
| " | Pomeroy & Sons | Ink | 20 | ..... | ..... | ..... |
| " | Carter, Sloan & Co | Jewelry | 185 | 65 | ..... | ..... |
| " | Krementz & Co | " | 100 | 25 | ..... | ..... |
| " | Day & Clark | " | 78 | 12 | 3 | ..... |
| " | Durand & Co | " | 65 | 15 | ..... | ..... |
| " | M. Krouse | " | 70 | ..... | ..... | ..... |
| " | Shoemaker, Pickering & Co | " | 80 | 4 | ..... | ..... |
| " | Thomas G. Brown & Co | " | 75 | 25 | ..... | ..... |
| " | W. Riker | " | 60 | 15 | ..... | ..... |
| " | W. C. Edge & Son | " | 95 | 5 | ..... | ..... |
| " | Wm. Rich & Co | " | 31 | 3 | ..... | ..... |
| " | Carr & Battan | " | 42 | 3 | ..... | ..... |
| " | M. Huger | " | 18 | 1 | ..... | ..... |
| " | Charles Schuets & Son | " | 55 | 5 | ..... | ..... |
| " | A. Alling Reeves | " | 12 | 6 | ..... | ..... |
| " | Chempenos & Co | " | 35 | 10 | ..... | ..... |
| " | Meyhen & Co | " | 13 | ..... | ..... | ..... |
| " | Elcox & Co | " | 44 | 6 | ..... | ..... |
| " | William H. Ball & Co | " | 20 | 5 | ..... | ..... |
| " | A. P. Morris | " | 15 | 35 | 6 | 2 |
| " | T. W. Adams & Co | " | 20 | 2 | ..... | ..... |
| " | Charles Knoby & Co | " | 9 | 6 | ..... | ..... |
| " | King & Co | " | 9 | ..... | ..... | ..... |
| " | Dorrance & Long | " | 14 | 1 | ..... | ..... |
| " | Uhrg Alworth | " | 5 | 1 | ..... | ..... |
| " | Block & Bergfls | " | 13 | ..... | ..... | ..... |
| " | A. Jewleman | " | 11 | 4 | ..... | ..... |
| " | Rothschild | " | 21 | 4 | ..... | ..... |
| " | T. Bassett Jewelry Co | " | 7 | ..... | ..... | ..... |
| " | O. E. Hendric & Co | " gold chains | 12 | 10 | ..... | ..... |
| " | Sinnock & Sherrill | Lapidary work | 33 | 2 | ..... | ..... |
| " | E. D. Regaa | " " | 5 | 1 | ..... | ..... |
| " | Cogswell & Boulter | Ladies' ruffles | ..... | 40 | ..... | ..... |
| " | J. Malloy | Leather | 10 | ..... | ..... | ..... |
| " | C. L. & R. E. Smith | " | 15 | ..... | ..... | ..... |

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## FACTORIES INSPECTED—SIXTH DISTRICT—Continued.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Newark | Cummings Bros. | Leather | 40 | | | |
| " | M. Reardon | " | 30 | | | |
| " | Seidenbach & Mahon | " | 120 | | | |
| " | John Riley | " | 40 | | | |
| " | Conroy & Weyrach | " | 10 | | | |
| " | Hugh Smith | " | 100 | | | |
| " | Charles Smith | " | 15 | | | |
| " | R. P. Lester | " | 15 | | | |
| " | Patrick Reiley | " | 200 | | | |
| " | Blanchard Bros. & Lane | " | 150 | | | |
| " | Stengel & Rothschild | " | 70 | | | |
| " | J. H. & J. W. Dawson | " | 160 | | | |
| " | E. S. Ward | " | 55 | | | |
| " | Riley & Mackin | " | 15 | | | |
| " | S Halsey & Son | " | 180 | | | |
| " | Henry Lang | " | 40 | | | |
| " | Meis & Egner | " | 24 | | | |
| " | Henry Lang | " | 20 | | | |
| " | M. Strouse | " | 65 | | | |
| " | Smith Bros | " | 73 | | 3 | |
| " | Lowenberg | " | 59 | | | |
| " | T. P. Howell | " | 150 | | | |
| " | J. H. Halsey & Smith | " | 150 | | | |
| " | C W. Meyer & Son | " | 50 | | | |
| " | Robert Dingnell | " | 15 | | | |
| " | M. J. Halpin | " | 17 | | | |
| " | M. Caffrey | " | 25 | | | |
| " | Reuben Trier | " | 17 | | | |
| " | Cowfare & Co | " | 35 | | | |
| " | Cashon & Flynn | " | 30 | | | |
| " | J. A. Schaffer & Co | " | 25 | | 2 | |
| " | Bingham | " | 14 | | | |
| " | Shattoc & Bingham | " | 60 | | | |
| " | Bentz, Ditsch & Betz | " | 200 | | 4 | |
| " | Phœnix Leather Co | " | 16 | | | |
| " | John N. Moore | " | 20 | | | |
| " | Newark Kid Works | " | 20 | | | |
| " | John Duyre | " | 16 | | | |
| " | Charles McEvoy | " | 50 | | | |
| " | Smith & Co | " | | | | |
| " | R. G. Solomon | " | | | | |
| " | C. H. & J. D. Harrison | " | 110 | | | |
| " | H. P. Witzel | " | 20 | | | |
| " | John W. Carr | " | 20 | | | |
| " | Palmer & Smith | " | 40 | | | |
| " | Louis Meyer | " | 20 | | | |
| " | Schaffer & Co | " | 25 | | | |
| " | Albert C. Friedlander | " | 10 | | | |
| " | L. M. Smith & Son | " | 12 | | | |
| " | R G. Solomon | " | 252 | 18 | | |
| " | Wm. R. King | " soles | 2 | 18 | | |
| " | Bellingham's | " " | | | | |
| " | Smith & Co | " " | | | | |
| " | Fred. Quntz | " sporting goods | 11 | 14 | | |
| " | J. Malloy & Co | " | 10 | | | |
| " | Newark Steam Laundry | Laundry | 5 | 30 | 3 | |
| " | American Steam Laundry | " | | | | |
| " | Sun Laundry | " | 12 | 18 | | |
| " | Troy City Laundry | " | 10 | 30 | | |
| " | Hausbrook's Laundry | " | 2 | 10 | | |
| " | B. & M. Letter Co | Letters | 20 | 5 | | |
| " | Tucker Letter and File Co | " and files | 15 | | | |
| " | C. N. Lockwood | Lamps | 18 | | | |

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## FACTORIES INSPECTED—SIXTH DISTRICT—Continued.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Newark | F. Moller | Lamps | 15 | ..... | ..... | ..... |
| " | J. Hubel | Locks | 10 | ..... | ..... | ..... |
| " | Romer & Co. | " | 20 | 1 | ..... | ..... |
| " | Thomas Sleight | " | 10 | ..... | ..... | ..... |
| " | Phœnix Lock Co. | " | 35 | 3 | 3 | ..... |
| " | Romer & Co. | " | 20 | 1 | ..... | ..... |
| " | Kellogg & Douglass | Lead pipe | 20 | ..... | ..... | ..... |
| " | Newark Licorice Works | Licorice | 140 | ..... | ..... | ..... |
| " | Cogswell & Boulten | Ladies' ruffles | ..... | 40 | ..... | ..... |
| " | Watts-Campbell Co. | Machinery | 175 | ..... | ..... | ..... |
| " | Hews & Phillips | " | 300 | ..... | ..... | ..... |
| " | Domestic Sewing Machine Co. | Sewing machines | 1000 | ..... | 2 | ..... |
| " | Charles Felder | Machinery | 9 | ..... | ..... | ..... |
| " | E. O. Chace | " | 10 | ..... | ..... | ..... |
| " | Gould & Eberhardt | " | 72 | ..... | ..... | ..... |
| " | Tirrell's Gas Machines | Gas machines | 12 | ..... | ..... | ..... |
| " | C. H. Redmond | Machines | 20 | ..... | ..... | ..... |
| " | George Ohl | Machinery | 22 | ..... | ..... | ..... |
| " | Atlas Mfg. Co. | " | 25 | ..... | ..... | ..... |
| " | John M. Hawkins | " | 18 | ..... | ..... | ..... |
| " | John R. Williams | " | 15 | ..... | ..... | ..... |
| " | Wm H. Chapman | " | 8 | ..... | ..... | ..... |
| " | H. C. Clauson | Machines | 30 | 1 | ..... | ..... |
| " | Skinner & Leary | Machinery | 16 | ..... | ..... | ..... |
| " | A. B. Pierce & Co. | " | 25 | ..... | ..... | ..... |
| " | J. Ross & Co. | Needles | 10 | 3 | 2 | ..... |
| " | E. C. Hay | Machine castings | 32 | ..... | ..... | ..... |
| " | Seymour & Whitlock | Machinery | 40 | ..... | ..... | ..... |
| " | J. S. Monday | " | 60 | ..... | ..... | ..... |
| " | Charles E. Green | " | 18 | ..... | ..... | ..... |
| " | Edward Yost | " | 16 | ..... | ..... | ..... |
| " | Maher & Robertson | Iron moulding | 65 | ..... | ..... | ..... |
| " | H H. Richmond. | Metal castings | 10 | ..... | 2 | ..... |
| " | Smith & Landwell | Machinery | 10 | ..... | ..... | ..... |
| " | Crane & Co | Metal castings | ..... | ..... | ..... | ..... |
| " | Cyrus Currier & Sons | Machinery | 100 | ..... | ..... | ..... |
| " | Van Vliet's | Malt | 20 | ..... | ..... | ..... |
| " | E. C. Hay | Machinery castings | 7 | ..... | ..... | ..... |
| " | T. J. Preston | Oils | ..... | ..... | ..... | ..... |
| " | Barnett & Co. | Paints | 20 | ..... | ..... | ..... |
| " | Hedges | Plumbers' supplies | 30 | ..... | ..... | ..... |
| " | H. Bidwell | Pasteboard | 5 | 2 | ..... | ..... |
| " | Snelling & Matthews | Paper ware | 5 | 2 | ..... | ..... |
| " | Chambers & Ansley | Plumbers' supplies | 35 | ..... | ..... | ..... |
| " | E. R. Carhuff | Potash | 38 | ..... | ..... | ..... |
| " | Fulcher's | Rules | 12 | ..... | ..... | ..... |
| " | S. O. Smith | " | 6 | ..... | ..... | ..... |
| " | C. Roberts | Rubber goods | 20 | 20 | 1 | ..... |
| " | L. Joy & Co | " " | 17 | 2 | ..... | ..... |
| " | Atha & Hughes | " and japanned cloth | 138 | ..... | ..... | ..... |
| " | Heath & Son | " " " " | 20 | ..... | ..... | ..... |
| " | Newark Rivet Works | Rivets | 25 | ..... | 2 | ..... |
| " | Daniel Delany | Springs | 20 | ..... | ..... | ..... |
| " | Tomlinson Spring Co. | " | 80 | ..... | ..... | ..... |
| " | Richardson Bros. | Saws | 183 | 10 | 9 | ..... |
| " | Bless & Drake | Smoothing irons | 60 | ..... | 3 | ..... |
| " | H. M. Richmond | Scales | 9 | ..... | 2 | ..... |
| " | Basch & Greenfield | Shoddy | 8 | 42 | 1 | ..... |
| " | Tiffany & Co. | Silver-plated ware | 70 | ..... | ..... | ..... |
| " | Strouss & Joseph | Silk embroidery | 5 | 55 | 2 | ..... |
| " | Etrick Art Tile Stoves | Stoves | 6 | ..... | ..... | ..... |
| " | Newark Pottery | Stoneware | 6 | ..... | ..... | ..... |

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## FACTORIES INSPECTED—SIXTH DISTRICT—Continued.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Newark | Zipp's Pottery | Stoneware | 13 | ..... | ..... | ..... |
| " | E. E. Hogan | Shoes | 140 | 10 | ..... | ..... |
| " | Johnson & Murphy | " | 135 | 30 | ..... | ..... |
| " | Wm. Dorisch & Son | " | 126 | 30 | 10 | ..... |
| " | Ober & Miller | " | 80 | 20 | ..... | ..... |
| " | James A. Bannister | " | 75 | 75 | 6 | ..... |
| " | John Burge & Bros | " | 50 | 25 | 4 | ..... |
| " | August Lentz | " | 65 | 15 | ..... | ..... |
| " | Felter Bros | " | 20 | 21 | 3 | ..... |
| " | A. Schmidt & Co | " | 65 | 15 | ..... | ..... |
| " | Thomas Cort, Jr | " | 55 | 8 | ..... | ..... |
| " | J. Durning & Co | " | 20 | ..... | ..... | ..... |
| " | A. J. Miller | " | 6 | 12 | ..... | ..... |
| " | Thomas Wharton | " | ..... | 20 | ..... | ..... |
| " | L. Boyden | " | 125 | 30 | ..... | ..... |
| " | Fonday's | " | 35 | 15 | ..... | ..... |
| " | Weston's | Electric supplies | 75 | 75 | ..... | ..... |
| " | Whitman Saddle Co | Saddles | 16 | ..... | ..... | ..... |
| " | Wheeler & Shiner | Shirts | 10 | 90 | ..... | ..... |
| " | Thomas Linnett | " | 5 | 33 | ..... | ..... |
| " | A. F. Meagher | " | 6 | 24 | 1 | ..... |
| " | C. H. Booth | " | ..... | 9 | ..... | ..... |
| " | Smith's Shirt Factory | " | 4 | 26 | ..... | ..... |
| " | Neal's Shirt Factory | " | 2 | 15 | ..... | ..... |
| " | M. Richnan | " and waists | 2 | 8 | 3 | ..... |
| " | Central Stamping Co | Stamping | ..... | ..... | ..... | ..... |
| " | Lowentrout's Skate Works | Skates | 100 | ..... | 3 | ..... |
| " | Speath's Skate Works | " | 10 | ..... | ..... | ..... |
| " | Illingworth's Steel Works | Steel | 500 | ..... | 4 | ..... |
| " | Harvey Steel Works | " | 60 | ..... | ..... | ..... |
| " | Heinisch's Scissors Factory | Scissors | 100 | ..... | 1 | ..... |
| " | Weiss' Scissors Factory | " | 85 | ..... | 4 | ..... |
| " | Phœnix Stamping Co | Stamping tinware | 10 | ..... | ..... | ..... |
| " | John Tobin & Co | " " | 24 | 1 | ..... | ..... |
| " | A. Turner & Co | " " | 30 | ..... | ..... | ..... |
| " | New Jersey Steel & Metal Co | " tin and metal | 24 | 1 | ..... | ..... |
| " | H. W. Woodman | " " " | 30 | ..... | ..... | ..... |
| " | Stillwell & Co | Edged tools | 15 | ..... | ..... | ..... |
| " | Dodge & Lyons | " " | 15 | ..... | ..... | ..... |
| " | H. L. Osborn | " " | 30 | ..... | ..... | ..... |
| " | M. Price | " " | 40 | ..... | ..... | ..... |
| " | Wm. Johnson | Tools | 45 | ..... | 2 | ..... |
| " | Henry Foster | " | 18 | ..... | ..... | ..... |
| " | F. Wichelhaus | " | 7 | ..... | ..... | ..... |
| " | C. Osborn | " | 60 | ..... | 5 | ..... |
| " | Scheuerman & Co | " | 20 | ..... | ..... | ..... |
| " | Newark Edge Tool Co | " | 80 | ..... | ..... | ..... |
| " | M. Einwechter | " | 15 | ..... | ..... | ..... |
| " | J. Harding | " | 20 | ..... | 2 | ..... |
| " | Clark Thread Co. (O. N. T) | Thread | 200 | 1300 | 60 | ..... |
| " | George B. Jenkinson | Trunks | 450 | 20 | 20 | ..... |
| " | Simon Bros | " | 258 | 12 | ..... | ..... |
| " | Lissa & Co | " | 63 | 5 | ..... | ..... |
| " | Edgar Farmer | " | 116 | 8 | 8 | ..... |
| " | Wm. O. Headley | " | 245 | 5 | 10 | ..... |
| " | John Toler & Son | Trunk rollers | 68 | 2 | 5 | ..... |
| " | George M. Ballard | " hardware | 30 | ..... | ..... | ..... |
| " | Oscar Barnett | " " | 40 | ..... | ..... | ..... |
| " | Campbell, Lane & Co | Tobacco | 35 | 25 | ..... | ..... |
| " | Ladies' Undergarment Co | Undergarments | 5 | 125 | 16 | ..... |
| " | Ultramarine Works | Ultramarine blue | 50 | 20 | 6 | ..... |
| " | Newark Watch Co | Watches | 30 | ..... | ..... | ..... |
| " | Henry Lee Fort | Watch crowns | 145 | 5 | ..... | ..... |

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## FACTORIES INSPECTED—SIXTH DISTRICT—Continued.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Newark | Pinnel, May & Co | Watch cases | 23 | 2 | ..... | ..... |
| " | A. Miline | " crowns | 25 | ..... | ..... | ..... |
| " | Essex Watch Case Co | " cases | 40 | 6 | ..... | ..... |
| " | Conivesier's | " | 200 | ..... | ..... | ..... |
| " | C. T. Williamson | Wire novelties | 58 | 2 | ..... | ..... |
| " | Bogardus Art Co | Wood " | 70 | ..... | ..... | ..... |
| " | John Sommers & Son | Woodware | 25 | ..... | 3 | ..... |
| " | J. H. Hath & Sons | Wood turning | 44 | ..... | ..... | ..... |
| " | Dalrymple & Faitoute | " " | 10 | ..... | ..... | ..... |
| " | Central Planing Mills | " " | 35 | ..... | ..... | ..... |
| " | Ripley & Sons | " sawing | 35 | ..... | ..... | ..... |
| " | Chapin Hall Lumber Co | " turning | 160 | ..... | ..... | ..... |
| " | Newark Planing Co | " planing | 20 | ..... | ..... | ..... |
| " | C. T. Miltz | " turning | 7 | ..... | ..... | ..... |
| " | William Kirk | Wood turning and carpentering | 50 | ..... | ..... | ..... |
| " | J. G. & A. C. Leib | Wooden articles | 10 | ..... | 1 | ..... |
| " | M. Danklefsen | Wood and ivory turning | 8 | ..... | ..... | ..... |
| " | William King & Co | " turning | 100 | 1 | ..... | ..... |
| " | William King | " and paper boxes | 8 | 15 | ..... | ..... |
| " | Swain & Jones | " planing | 16 | ..... | ..... | ..... |
| " | Hedden & Sons | " turning and planing | 60 | ..... | ..... | ..... |
| " | Oliver Mfg. Co | Wagon wheels | 15 | ..... | ..... | ..... |
| " | Searls, Randall & Co | Whip sockets | 43 | ..... | ..... | ..... |
| " | Eagle Winker Co | Winkers | 22 | 8 | ..... | ..... |
| " | P. Jones & Co | Wheels | 90 | ..... | ..... | ..... |
| " | Atlantic Window Shade Co | Window shades | 25 | 10 | ..... | ..... |
| " | Franklin Murphy & Co | Varnishes | 50 | ..... | ..... | ..... |
| " | John L. Armitage | " | 20 | ..... | ..... | ..... |
| " | New Jersey Zinc and Iron Co | Zinc | 250 | ..... | ..... | ..... |
| Orange | Cummings & Matthews | Hats | 150 | 50 | ..... | ..... |
| " | No Name Hat Co | " | 85 | 15 | ..... | ..... |
| " | F. Berg & Co | " | 103 | 137 | ..... | ..... |
| " | McGall, Allan & Co | " | 350 | 100 | ..... | ..... |
| " | E. V. Connett | " | 170 | 55 | ..... | ..... |
| " | Austin Drew & Co | " | 150 | 50 | ..... | ..... |
| " | Puff & Yeomans | " | 50 | 10 | ..... | ..... |
| " | McChesney & Fisher | " | 80 | 20 | ..... | ..... |
| " | Long & Co | " | 40 | 10 | ..... | ..... |
| " | Dougherty & Co | " | 30 | 12 | ..... | ..... |
| " | Harrup, Gist & Co | " | 60 | 30 | ..... | ..... |
| " | J. J. Perrine | " | 60 | 20 | ..... | ..... |
| " | Dykman & Co | " | 200 | 50 | ..... | ..... |
| " | A. Brandes | " | 40 | 12 | ..... | ..... |
| " | Porter, Crofort & Co | " | 120 | 30 | ..... | ..... |
| " | Brannan & Co | " | 120 | 30 | ..... | ..... |
| " | Barry, Quinlan & Co | " | 140 | 40 | ..... | ..... |
| " | Smith & Sons | " | 50 | 15 | ..... | ..... |
| " | E. B. Whiting | " | 25 | 10 | ..... | ..... |
| " | James Young & Son | " | 25 | 10 | ..... | ..... |
| " | Kearscher's | " | 60 | 20 | ..... | ..... |
| " | T. Walker | " | 60 | 20 | ..... | ..... |
| " | H. G. & H. Gibbs | Hat forming | 40 | 11 | ..... | ..... |
| " | C. Manus & Co | Hats | 100 | 10 | ..... | ..... |
| " | Berg's | " | 70 | 18 | ..... | ..... |
| " | C. W. Houghton | " | 70 | 12 | ..... | ..... |
| " | Thomas Walker & Co | " | 60 | 10 | ..... | ..... |
| " | A. G. Glover's | " | 100 | 20 | ..... | ..... |
| " | Jenkins, Dodd & Co | Paper boxes | 60 | 20 | ..... | ..... |
| " | T. O. Engling | " " | 27 | 13 | 4 | ..... |
| " | F. G. Barber | Sash and blinds | 20 | ..... | ..... | ..... |
| " | P. B. Fairchild | Wood turning | 50 | ..... | ..... | ..... |

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## FACTORIES INSPECTED—SIXTH DISTRICT—Continued.

| LOCATION. | NAME OF COMPANY. | GOODS MANUFACTURED. | Employes—males. | Employes—females. | Under sixteen years. | Children discharged. |
|---|---|---|---|---|---|---|
| Orange | Smith & Dodd | Jackets | 4 | 50 | 2 | ..... |
| " | Standard Cash Register Co | Cash registers | 10 | ..... | ..... | ..... |
| " | Thomas S. Post | Planing | 25 | ..... | ..... | ..... |
| Bloomfield | P. Hayden | Harness mountings | 78 | 2 | ..... | ..... |
| " | James Moffatt | Brass goods | 15 | ..... | ..... | ..... |
| " | R. S. Grummon | Silver-plated metal | 35 | ..... | ..... | ..... |
| " | H. K. & F. S. Benson | " " " | 16 | ..... | ..... | ..... |
| " | J. Freeman & Co | Shoes | 80 | 10 | ..... | ..... |
| " | De Lavel's Separator Co | Machinery | 25 | ..... | ..... | ..... |
| " | James Cresp | Sewing-machine belts | 10 | ..... | ..... | ..... |
| " | Thomas Oakes & Co | Woolen goods | 149 | 40 | 10 | ..... |
| " | Combination Rubber Co | Rubber " | 45 | 2 | 2 | ..... |
| " | S. Gilson | Hats | 29 | 11 | ..... | ..... |
| " | Eller, Lane & Co | " | 82 | 18 | ..... | ..... |
| " | Ellor Bros | " | 72 | 18 | ..... | ..... |
| " | Thompson, Eller & Co | " | 60 | 20 | ..... | ..... |
| " | Medical and Surgical Plaster Co | Medical plasters | 14 | 6 | ..... | ..... |
| Millburn | H. Graves | Hats | 20 | 15 | ..... | ..... |
| " | F. Forrat | " | 40 | 20 | ..... | ..... |
| " | Diamond Mills | Paper | 14 | 4 | ..... | ..... |
| " | A. L. Anderson | Pasteboard | 23 | 1 | ..... | ..... |
| " | Dillon's | Hats | 20 | ..... | ..... | ..... |
| " | Brown's | " | 20 | ..... | ..... | ..... |
| " | Ward's | " | 24 | ..... | ..... | ..... |
| " | W. F. & J. H. Wade | Pasteboard | 12 | ..... | ..... | ..... |
| " | J. L. Meeker | " | 6 | ..... | ..... | ..... |
| Belleville | De Witt Wire Co | Wire | 75 | 75 | 15 | ..... |
| " | P. Hogan Hat Factory | Hats | 35 | 15 | ..... | ..... |
| " | Oscar Nenninger | Iron moulding | 5 | ..... | ..... | ..... |
| " | Riverside Rubber Co | Rubber | 53 | 15 | 12 | ..... |
| " | Eastwood Chemical Co | Chemicals | 28 | ..... | ..... | ..... |
| " | Eastwood Wire Co | Wire | 53 | 7 | ..... | ..... |
| " | Passaic Steam Laundry | Laundry | 150 | 75 | ..... | ..... |
| East Orange | Seabury's | Medicinal plasters | 58 | 167 | 3 | ..... |
| " " | E. J. Brooks | Railroad supplies | 23 | 7 | ..... | ..... |
| " " | Spiral Weld Tube Co | Spiral tubes | 120 | ..... | ..... | ..... |
| West Orange | Edison's Laboratory | Electric apparatus | 300 | 200 | ..... | ..... |
| " " | George Cooke | Builders' supplies | 18 | ..... | ..... | ..... |
| " " | Whiting's Factory | Hats | 35 | 15 | ..... | ..... |
| " " | H. Bulkley | Steam pumps | 10 | ..... | ..... | ..... |
| Franklin | Kingsland's Paper Mill | Paper | 29 | 16 | ..... | ..... |
| Montclair | Samuel Crump & Co | Labels | 235 | 40 | 10 | ..... |
| Maplewood | Maplewood Paper Mills | Paper | 15 | ..... | ..... | ..... |
| South Orange | South Orange Hat Co | Hats | ..... | ..... | ..... | ..... |

## CHANGES ORDERED AND CONDITION OF FACTORIES—SIXTH DISTRICT.

| LOCATION AND NAME OF COMPANY. | CHANGES ORDERED. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|
| Newark— | | | |
| Electric Accumulator Co. | No orders necessary | None given | Good. |
| Safety Alarm Co. | No orders necessary | None given | Good. |
| Asphaltic Roofing Co | Fly-wheel and belt to be guarded | | Fair. |
| Tucker Letter and File Co. | No orders necessary | None given | Good. |
| Wm. T. Mersereau | Four belts, gearing and elevator to be guarded | | Good. |
| C. M. Theabreath | No orders necessary | None given | Good. |
| Calhoun, Barnett & Co. | No orders necessary | None given | Good. |
| B. Conlan & Co. | No orders necessary | None given | Good. |
| George Havill | No orders necessary | None given | Good. |
| Riley & Osborn | One belt to be guarded and fire-escape ordered | None given | Good. |
| Richard Sims | No orders necessary | None given | Good. |
| Thos. H. Brown | No orders necessary | None given | Good. |
| James E. Mergot | No orders necessary | None given | Good. |
| M. Gould & Son | No orders necessary | None given | Good. |
| Goerts & Co | No orders necessary | None given | Good. |
| Deffany & Co. | No orders necessary | None given | Good. |
| Newark Novelty Co. | No orders necessary | None given | Good. |
| C. P. Gould | No orders necessary | None given | Good. |
| Scharling's | Fire-escape ordered on building | None given | Good. |
| Durning & Co. | No orders necessary | None given | Good. |
| Devlin Bros | No orders necessary | None given | Good. |
| Westerhoff | No orders necessary | None given | Good. |
| Newman & Co. | No orders necessary | None given | Good. |
| Eggers & Co. | No orders necessary | None given | Good. |
| R. C. Jenkinson | No orders necessary | None given | Good. |
| Naumberg & Co. | No orders necessary | None given | Fair. |
| Thos. Davis | Shafting to be guarded | Complied with | Fair. |
| Hubner & Son | Shafting to be guarded | | Good. |
| McCutchon & Crain | No orders necessary | None given | Good. |
| Henry Smith | No orders necessary | None given | Good. |
| Frank & Co. | To provide more water-closets | Complied with | Fair. |
| Pearsols Button Co. | To guard shafting | None given | Good. |
| F. Frentz | To guard ends of shafting | Complied with | Fair. |
| Toms & Reed | No orders necessary | None given | Good. |
| Wm. Donovan | To guard belt | Complied with | Good. |
| N. J. Button Co. | To erect fire-escape | Complied with | Good. |
| H. M. Yates | No orders necessary | None given | Good. |
| Wm. Blum | No orders necessary | None given | Good. |
| Albrecht & Koch | No orders necessary | None given | Good. |
| Godfried Kreuger | To guard twelve belts | Complied with | Good. |
| Ballentine & Co. | Five belts and fly-wheel to be guarded | Complied with | Good. |
| Ballentine & Co., ale and beer | No orders necessary | None given | Good. |
| Joseph Hensler | To guard three belts | Complied with | Good. |
| William Hills | Belts to be guarded | Complied with | Good. |
| Charles Trefz | To guard elevator and belts | | Good. |
| George W. Weidenmayer | No orders necessary | None given | Good. |
| Franz J. Kastner | No orders necessary | None given | Good. |
| Feigenspan's Brewery | No orders necessary | None given | Good. |
| Home Brewing Co. | To guard five belts | Complied with | Good. |
| Fred. Lisensky | Four belts to be guarded | None given | Good. |
| Lyon & Son | | | Good. |
| Newark Purse Frame Co. | To erect fire-escape on factory | None given | Good. |
| William Mockridge | To provide separate closet for females | Complied with | Good. |
| William Titus | No orders necessary | None given | Good. |
| Mangle & Smith | No orders necessary | None given | Good. |
| Fritche's Bakery | No orders necessary | None given | Good. |
| Adam Turkes | No orders necessary | None given | Good. |
| E. T. Hart (Boxes) | Three belts to be guarded | Complied with | Good. |
| U. S. Butter Extractor Co. | No orders necessary | None given | Good. |

## CHANGES ORDERED AND CONDITION OF FACTORIES—SIXTH DISTRICT—Continued.

| Location and Name of Company. | Changes Ordered. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|
| Newark— | | | |
| J. D. Marquett & Co | No orders necessary | None given | Good. |
| Gauch & Co | To screen stairs | Complied with | Good. |
| Charles Osborn | No orders necessary | None given | Good. |
| John Davidson | No orders necessary | None given | Good. |
| Mergot, Howell & Co | To guard belt and shafting | None given | Good. |
| Charles Appel & Son | To guard elevator opening | Complied with | Good. |
| C. W. Conery | No orders necessary | None given | Good. |
| E. W. Dixon | No orders necessary | None given | Good. |
| Joseph Baldwin | No orders necessary | None given | Good. |
| Wm. A. Brentzinghoffer | No orders necessary | None given | Good. |
| Joseph G. Glutting | No orders necessary | None given | Good. |
| H. Donaldson | No orders necessary | None given | Good. |
| Friedenthal & Adler | No orders necessary | None given | Good. |
| Wm. Salter | No orders necessary | None given | Good. |
| J. B. Axt | No orders necessary | None given | Good. |
| Crawford & Co | No orders necessary | None given | Good. |
| H. Howarth | No orders necessary | None given | Good. |
| Wm. Kraft | To erect fire-escape and to guard shaft. | Not complied with. | Fair. |
| Jacob Meyer | To erect fire-escape and to guard shaft. | Not complied with. | Fair. |
| Hammerslough Bros | No orders necessary | None given | Good. |
| J. V. Deiffenthaler | No orders necessary | None given | Good. |
| Charles H. Curtus | To guard shafting and lime paint | Not complied with. | Fair. |
| Wenzel Koska | No orders necessary | None given | Good. |
| Peter Geiger | No orders necessary | None given | Good. |
| John Fleming | No orders necessary | None given | Good. |
| A. Steiner | No orders necessary | None given | Good. |
| Jacob Schmidt | No orders necessary | None given | Good. |
| George Miller | No orders necessary | None given | Good. |
| Chris. Arnold | No orders necessary | None given | Good. |
| Wm. Leven | No orders necessary | None given | Good. |
| Joseph Hass | No orders necessary | None given | Good. |
| Martin Singer | No orders necessary | None given | Good. |
| M. Kogel | No orders necessary | None given | Good. |
| Philip Ruttiger | No orders necessary | None given | Good. |
| George Braun | No orders necessary | None given | Good. |
| George Heller | No orders necessary | None given | Good. |
| A. Brutchman | No orders necessary | None given | Good. |
| Philip McDonald | To provide separate closet for females. | None given | Fair. |
| John Heberly | No orders necessary | None given | Good. |
| M. Freeman | No orders necessary | None given | Good. |
| John Fried | No orders necessary | None given | Good. |
| Philip Berz | No orders necessary | None given | Good. |
| J. Thumo | No orders necessary | None given | Good. |
| Mrs. Van Riper | No orders necessary | None given | Good. |
| John H Wheaton | No orders necessary | None given | Good. |
| T. H. Wisiner | No orders necessary | None given | Good. |
| John Henning | No orders necessary | None given | Good. |
| Continental Corset Co | Shafting of machine to be guarded | None given | Good. |
| James Bowers & Co | Shafting of machine to be guarded | None given | Good. |
| Ferris Brothers | Shafting of machine to be guarded | Complied with | Best. |
| Crotty Brothers | Shafting of machine to be guarded | Complied with | Good. |
| Weingarten Brothers | Shafting of machine to be guarded | | Good. |
| Bristol Corset Co | Shafting of machine to be guarded | Complied with | Good. |
| Whiting & Smartwood | Fire-escape ordered | Not complied with. | Fair. |
| Wright's Corset Steels | To guard one belt | Complied with | Fair. |
| J. W. Jackson | To guard shafting | | Good. |
| John Bea | No orders given | None given | Good. |
| Newark Lime and Cement Co | No orders given | None given | Good. |
| John Kearsing | No orders given | None given | Good. |
| D. S. Plumb | No orders given | None given | Good. |
| Bannister's Cutlery | To guard belts | None given | Fair. |

## CHANGES ORDERED AND CONDITION OF FACTORIES—SIXTH DISTRICT—Continued.

| LOCATION AND NAME OF COMPANY. | CHANGES ORDERED. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|
| Newark— | | | |
| Robert Meyer | No changes necessary | None given | Good. |
| Passaic Chemical Co. | No changes necessary | None given | Good. |
| Union Chemical Co. | To guard three belts | None given | Good. |
| Charles Cooper & Co. | No orders necessary | None given | Good. |
| James Quimby. | No orders necessary | None given | Good. |
| Wm. Streby | No orders necessary | None given | Good. |
| Celluloid Novelty Co | No orders necessary | None given | Good. |
| Celluloid Manufacturing Co. | No orders necessary. | None given | Good. |
| Celluloid Brush Co | No orders necessary | None given | Good. |
| Eureka Cement Co | No orders necessary | None given | Good. |
| Central R R. Car Works | One belt to be guarded | Complied with | Good. |
| Hiller & Co., dyers. | No orders necessary | | Good. |
| Hemmer Bros. | To erect fire-escape | Not complied with. | Good. |
| Benjamin Bros. | To guard shafting | | Good. |
| H. Borneman | Light in halls | | Good. |
| Strauss & Joseph | No orders necessary | None given | Good. |
| Thos. & George Stone | To guard elevator shaft | Complied with | Good. |
| A. Shlueter & Co | No orders necessary | None given | Good. |
| Newark Electric Light Co. | No orders necessary | None given | Good. |
| U. S Electric Light Co. | To cut off end of shaft in cellar | Complied with | Best. |
| Elastic Hair Co | No orders necessary | None given | Good. |
| Bradley & Craig | No orders necessary | None given | Good. |
| Spencer Optical Co | To guard shafting | Complied with | Good. |
| Lister Brothers | To place more lights in black-room | Complied with | Good. |
| Wilkinson, Gaddis & Co. | To guard three belts | Not complied with. | Good. |
| F. F. Lane | To guard belting | Complied with | Good. |
| H. S. Miller | No orders necessary | None given | Good. |
| Newark Gas Co | No orders necessary | None given | Good. |
| Citizens Gas Co | No orders necessary | None given | Good. |
| Baulback & Son | To guard fly-wheels and shafting | Complied with | Good. |
| Le Long Brothers | No orders necessary | None given | Good. |
| Yates & Wharton | Shafting to be guarded; also better ventilation | None given | Good. |
| Wheeler & Russell | To guard belts and shafting | | Good. |
| Ferry & Napier | No orders necessary | None given | Good. |
| Meyer Mercy, Academy St. | To guard shafting | Complied with | Good. |
| Meyer Mercy, Scott St. | To guard shafting | | Good. |
| Meyer Mercy Mfg. Co., Polk St. | To guard shafting and belts | | Good. |
| Joseph Schuman | No orders necessary | None given | Good. |
| C. F. Seitz & Sons | Two belts and shafting to be guarded | Complied with | Fair. |
| J. Rummel & Son | No orders necessary | None given | Good. |
| J. M. Espenschied | No orders necessary | None given | Good. |
| Wheeler & Russell | No orders necessary | None given | Fair. |
| Albert Seitz | No orders necessary | None given | Good. |
| David Wolf | No orders necessary | None given | Good. |
| W. H. Neary | No orders necessary | None given | Good. |
| James Robertson | No orders necessary | None given | Good. |
| C. M. Hedden & Co., 13th Ave. | No orders necessary | None given | Good. |
| C. M. Hedden & Co., Park Ave | No orders necessary | None given | Good. |
| Bernard Daly | Shafting to be guarded | | Fair. |
| McClair & Davis. | Shafting to be covered | Complied with | Good. |
| Mark & Romberg | Shafting to be guarded | Complied with | Good. |
| Rutan & Pond | Shafting to be guarded | Complied with | Good. |
| Douglass Forming Mill | Belts and pulleys to be guarded | Complied with | Good. |
| Phiffer & Co. | Pulleys to be guarded | | Good. |
| Oscar Willigerode | Pulleys to be guarded | | Good. |
| G. H. Herman & Co | No orders necessary | None given | Good. |
| R. C. Winters | No orders necessary | None given | Good. |
| Peters, Calhoun & Co. | To erect fire-escape | Not complied with. | Fair. |
| Demerest & Co. | No orders necessary | None given | Good. |

## CHANGES ORDERED AND CONDITION OF FACTORIES—SIXTH DISTRICT—Continued.

| LOCATION AND NAME OF COMPANY. | | CHANGES ORDERED. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|---|
| Newark— | | | | |
| Wm. Crabb | | No orders necessary | None given | Good. |
| F. F. Beck & Son | | No orders necessary | None given | Good. |
| F. W. Bonneau | | No orders necessary | None given | Good. |
| Butler & Ward | | No orders necessary | None given | Good. |
| S. S. Sargent | | No orders necessary | None given | Good. |
| A. Albright | | No orders necessary | None given | Good. |
| P. Hayden | 1 | No orders necessary | None given | Good. |
| Mahony & Clark | 1 | To guard main belt and shaft | None given | Good. |
| Newark Star Heel Plate Co | | No orders necessary | None given | Good. |
| Smith Brothers | | No orders necessary | None given | Good. |
| Crabb & Co | 1 | To guard shafting | Complied with | Good. |
| Baeder, Adamson & Co | 2 | To guard belts and ventilate one room | Complied with | Good. |
| Kuhnhold & Co | 1 | To guard shafting | Complied with | Good. |
| Tomkins & Manderville | | No orders necessary | None given | Good. |
| Tyler Parmly | | No orders necessary | None given | Good. |
| T. S. Carley | 1 | To guard shafting | Not complied with. | Good. |
| H. Fulcher | | No orders necessary | None given | Good. |
| Thomas Nichols | 2 | Main belt to be guarded; also pulleys. | None given | Good. |
| Budich & Zudizky | | No orders necessary | None given | Good. |
| Fairchild's Hat Factory | 1 | Shafting to be guarded | | Good. |
| Joseph Mercy | | No orders necessary | None given | Good. |
| C. H. Alliston | | No orders necessary | None given | Good. |
| George Yule | 3 | Two belts and shaft to be guarded | Complied with | Good. |
| Jarvis & Co | | No orders necessary | None given | Good. |
| Mercy & Kohn | | No orders necessary | None given | Good. |
| M. McKeon | 1 | Six fire buckets ordered | None given | Good. |
| Mooney's Hat Factory | | No orders necessary | None given | Good. |
| Herman's Hat Factory | | No orders necessary | None given | Good. |
| Heller Brothers | 1 | To guard belts and pulleys | Partly complied with | Good. |
| John Ray | | No orders necessary | None given | Good. |
| Sloan & Chace | | No orders necessary | None given | Good. |
| Pomeroy & Sons | 1 | To guard hoistway | Not complied with. | Good. |
| Carter, Sloan & Co | 4 | To guard three belts and screen stairs. | Complied with | Good. |
| Krements & Co | 1 | To guard one belt | Complied with | Good. |
| Day & Clark | | No orders necessary | None given | Good. |
| Durand & Co | | No orders necessary | None given | Good. |
| M. Krause | | No orders necessary | None given | Good. |
| Shoemaker & Pickering | | No orders necessary | None given | Good. |
| Thomas G. Brown & Co | | No orders necessary | None given | Good. |
| William Riker | | No orders necessary | None given | Good. |
| William C. Edge & Son | | No orders necessary | None given | Good. |
| William Rich & Co | | No orders necessary | None given | Good. |
| Carr & Batten | | No orders necessary | None given | Good. |
| M. Huger | | No orders necessary | None given | Good. |
| Charles Schuets & Son | | No orders necessary | None given | Good. |
| A. Alling Reeves | | No orders necessary | None given | Good. |
| Chempenos & Co | | No orders necessary | None given | Good. |
| Mayhew & Co | | No orders necessary | None given | Good. |
| Elcox & Co | | No orders necessary | None given | Good. |
| William H. Ball & Co | | No orders necessary | None given | Good. |
| A. P. Morris | | No orders necessary | None given | Good. |
| T. W. Adams & Co | | No orders necessary | None given | Good. |
| Charles Knobs & Co | | No orders necessary | None given | Good. |
| King & Co | | No orders necessary | None given | Good. |
| Darrence & Long | | No orders necessary | None given | Good. |
| Uhry & Alroth | | No orders necessary | None given | Good. |
| Block & Bergfls | | No orders necessary | None given | Good. |
| A. Jerolman | | No orders necessary | None given | Good. |
| Rothschild | | No orders necessary | None given | Good. |
| Bassett Jewelry Co | | No orders necessary | None given | Good. |

## CHANGES ORDERED AND CONDITION OF FACTORIES—SIXTH DISTRICT—Continued.

| Location and Name of Company. | CHANGES ORDERED. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|
| Newark— | | | |
| E. O. Hendricks & Co | No orders necessary | None given | Good. |
| T. P. Howell & Co | Four belts to be guarded; bar on elevator | None given | Good. |
| J. H. Halsey & Smith | No changes ordered | None given | Good. |
| C. W. Meyer | No orders necessary | None given | Good. |
| Robert Dingwell | No orders necessary | None given | Good. |
| M. J. Halpin | No orders necessary | None given | Good. |
| M. Caffrey | No orders necessary | None given | Good. |
| Reuben Trier | No orders necessary | None given | Good. |
| Cowfare & Co | No orders necessary | None given | Good. |
| Cashon & Flynn | No orders necessary | None given | Good. |
| F. A. Scheaffer & Co | No orders necessary | None given | Good. |
| Bingham's Leather | No orders necessary | None given | Good. |
| Shattoc & Bingham | No orders necessary | None given | Good. |
| Bentz, Ditsch & Betz | No orders necessary | None given | Good. |
| Phœnix Leather Co | No orders necessary | None given | Good. |
| John Moore | No orders necessary | None given | Good. |
| Newark Kid Works | No orders necessary | None given | Good. |
| John Dywire | No orders necessary | None given | Good. |
| Charles McEvoy | No orders necessary | None given | Good. |
| Smith & Co | No orders necessary | None given | Good. |
| R. G. Salomon | No orders necessary | None given | Good. |
| C. H. & J. D. Harrison | No orders necessary | None given | Good. |
| H. P. Weitzel | No orders necessary | None given | Good. |
| John W. Carr | Main belt to be guarded | Not complied with. | Good. |
| Palmer & Smith | No orders necessary | None given | Good. |
| Louis Meyer | No orders necessary | None given | Good. |
| Schaffer & Co | No orders necessary | None given | Good. |
| Albert C. Freidlander | No orders necessary | None given | Good. |
| L. M. Smith & Son | No orders necessary | None given | Good. |
| Wm. R. King | No orders necessary | None given | Good. |
| Bellingham's | Two belts to be guarded | Complied with | Good. |
| Smith & Co | One belt to be guarded | Complied with | Good. |
| Fred. Quimby | Shafting to be guarded | None given | Good. |
| Cogswell & Boulter | Shafting to be guarded | Complied with | Good. |
| Newark Steam Laundry | No changes ordered | None given | Good. |
| The American | | | |
| Sun Laundry | No changes necessary | None given | Good. |
| Troy City Laundry | Fly-wheel to be guarded | None given | Good. |
| Hausbrook's Troy Laundry | No changes necessary | None given | Good. |
| B. & M. Letter Co | No changes necessary | None given | Good. |
| Tucker Letter and File Co | No changes necessary | None given | Good. |
| C. N. Lockwood | One belt to be guarded; closet to be put in order | Complied with | Good. |
| F. Moller | No orders necessary | None given | Good. |
| J. Hubel | No orders necessary | None given | Good. |
| Thomas Sleight | No orders necessary | None given | Good. |
| C. L. & R. E. Smith | No orders necessary | None given | Good. |
| Cummings Brothers | No orders necessary | None given | Good. |
| Seidenback & Mahone | No orders necessary | None given | Good. |
| John Riley | No orders necessary | None given | Good. |
| M. Reardon | No orders necessary | None given | Good. |
| Conroy & Weyrauch | No orders necessary | None given | Good. |
| Hugh Smith | No orders necessary | None given | Good. |
| Charles Smith | No orders necessary | None given | Good. |
| R. P. Lister | No orders necessary | None given | Good. |
| Patrick Riley & Sons | No orders necessary | None given | Good. |
| Blanchard Bros. & Lane | No orders necessary | None given | Good. |
| Stengel & Rothschild | No orders necessary | None given | Good. |
| J. H. & J. W. Dawson | No orders necessary | None given | Good. |
| E. S. Ward | No orders necessary | None given | Good. |
| Riley & Mackin | No orders necessary | None given | Good. |

## CHANGES ORDERED AND CONDITION OF FACTORIES—SIXTH DISTRICT—Continued.

| Location and Name of Company. | Changes Ordered. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|
| Newark— | | | |
| S. Halsey & Son | No orders necessary | None given | Good. |
| Henry Lang | No orders necessary | None given | Good. |
| Mies & Egner | One belt to be guarded | Complied with | Good. |
| M. Strouse | No orders necessary | None given | Good. |
| Henry Land (Arch St.) | Two belts to be guarded | None given | Good. |
| Smith Brothers | No orders necessary | None given | Good. |
| A. Lowenberg | No orders necessary | None given | Good. |
| Phœnix Lock Co | No changes necessary | None given | Good. |
| Kellog & Douglass | No changes necessary | None given | Good. |
| Newark Licorice Works | No changes necessary | None given | Good. |
| Watts, Campbell & Co | No changes necessary | None given | Good. |
| Hews & Phillips | No changes necessary | None given | Good. |
| Domestic Sewing Machine Co | To guard one belt | Complied with | Good. |
| Charles Felder | Closet to be cleaned | Complied with | Good. |
| E. O. Chace | No orders necessary | None given | Good. |
| Gould & Eberhardt | To erect a fire-escape on building | | Good. |
| Tirrells Gas Machine Co | To put guards on elevator | Complied with | Good. |
| C. H. Redman | No orders necessary | None given | Good. |
| George Ohl | No orders necessary | None given | Good. |
| Atlas Manufacturing Co | No orders necessary | None given | Good. |
| John M. Hawkins | No orders necessary | None given | Good. |
| John R. Williams | No orders necessary | None given | Good. |
| William H. Chapman | No orders necessary | None given | Good. |
| H. C. Clawson | To guard one belt | Complied with | Good. |
| Skinner & Leary | No orders necessary | None given | Good. |
| A. B. Pierce & Co | No orders necessary | None given | Good. |
| Seymour & Whitlock | No orders necessary | None given | Good. |
| J. S. Monday | No orders necessary | None given | Good. |
| Chas. E. Green | One belt to be guarded | Complied with | Good. |
| Edward Yost | No orders necessary | None given | Good. |
| Maher & Robertson | No orders necessary | None given | Good. |
| H. H. Richmond | No orders necessary | None given | Good. |
| Smith & Landwell | No orders necessary | None given | Good. |
| Crane & Co | No orders necessary | None given | Good. |
| Cyrus Currier & Sons | No orders necessary | None given | Good. |
| E. C. Hay | No orders necessary | None given | Good. |
| Van Vliet's Malt House | No orders necessary | None given | Good. |
| T. G. Preston | Two belts to be guarded | Complied with | Good. |
| Barnett & Co | No orders given | | Good. |
| Hedges | No orders given | | Good. |
| H Bidwell | To guard fly-wheel | Complied with | Good. |
| Snelling & Matthews | No orders necessary | None given | Good. |
| Chambers & Ansley | No orders necessary | None given | Good. |
| E. R. Carhuff | No orders necessary | None given | Good. |
| Bulcher's | No orders necessary | None given | Good. |
| S. O. Smith | No orders necessary | None given | Good. |
| C. Roberts | To guard gearing | Complied with | Good. |
| L. Joy & Co | To guard gearing | Complied with | Good. |
| Altha & Hughes | No orders necessary | None given | Good. |
| Heath & Son | No orders necessary | None given | Good. |
| Newark Rivet Co | To guard fly-wheel | Complied with | Good. |
| Daniel Daleney | No orders necessary | None given | Good. |
| Tomlinson Spring Co | No orders necessary | None given | Good. |
| Richardson Brothers | Three belts to be guarded | Complied with | Good. |
| Bless & Drake | Four belts to be guarded | Complied with | Good. |
| H. M. Richmond | No orders necessary | None given | Good. |
| Basch & Greenfield | No orders necessary | None given | Good. |
| Tiffeny & Co | No orders necessary | None given | Good. |
| Etrick Art Tile Stove Works | No orders necessary | None given | Good. |
| Strauss & Josephs | No orders necessary | None given | Good. |
| Newark Pottery | No orders necessary | None given | Good. |
| Zipps Pottery | No orders necessary | None given | Good. |

## CHANGES ORDERED AND CONDITION OF FACTORIES—SIXTH DISTRICT—Continued.

| LOCATION AND NAME OF COMPANY. | CHANGES ORDERED. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|
| Newark— | | | |
| E. E. Hogan | No orders necessary | None given | Good. |
| Johnson & Murphy | To guard shafting | Complied with | Good. |
| William Dersch & Son | To guard shafting | Complied with | Good. |
| Ober & Miller | No orders necessary | None given | Good. |
| James A. Bannister | No orders necessary | None given | Good. |
| John Burger & Brother | To guard shafting | Not complied with. | Good. |
| August Lentz | To guard shafting | Not complied with | Good. |
| Fetter Brothers | To guard shaft and belt | Not complied with. | Good. |
| A. Schmidt & Co | No orders necessary | None given | Good. |
| Thomas Cort | No orders necessary | None given | Good. |
| J. Durning & Co | No orders necessary | None given | Good. |
| A. J. Miller | To guard shafting | Complied with | Fair. |
| Thomas Warton | No orders necessary | None given | Good. |
| L. Boyden | No orders necessary | None given | Good. |
| Fonday & Co | To guard shafting | | Good. |
| Weston's | No orders necessary | None given | Good. |
| Whitman Saddle Co | No orders necessary | None given | Good. |
| Wheeler & Shiner | To guard shafting | Complied with | Good. |
| Thos. Linnett | To guard shafting | Complied with | Good. |
| A. T. Meagher | To guard shafting | Complied with | Good. |
| C. H. Booth | To guard shafting | | Good. |
| Smith's Shirt Factory | To guard shafting | Complied with | Fair. |
| Neal's Shirt Factory | To guard shafting | | Fair. |
| M. Richmond | To guard shafting and provide a separate closet for females | | Good. |
| Central Stamping Co | No orders necessary | Complied with. | Good. |
| Lowentraut Skate Works | No orders necessary | None given | Good. |
| Speath's Skate Works | No orders necessary | None given | Good. |
| Illingworth Steel Works | Fly-wheel and shaft to be guarded | Complied with. | Good. |
| Harvey Steel Works | Pulleys to be guarded | Complied with. | Good. |
| R. Heinsch & Son | No orders necessary | None given | Good. |
| J. Wiss | No orders necessary | None given | Good. |
| Phœnix Stamping Co | No orders necessary | None given | Good. |
| John Tobin | No changes necessary | None given | Good. |
| A. Turner & Co | No changes necessary | None given | Good. |
| N. J. Steel and Metal Co | No changes necessary | None given | Good. |
| H. Woodman | No changes necessary | None given | Good. |
| Stillwell & Co | No changes necessary | None given | Good. |
| Dodge & Lyons | No changes necessary | None given | Good. |
| H. L Osborn | No changes necessary | None given | Good. |
| M. Price | No changes necessary | None given | Good. |
| Wm. Johnson | No changes necessary | None given | Good. |
| Henry Foster | No changes necessary | None given | Good. |
| F. Wichelheus | No changes necessary | None given | Good. |
| C. Osborn | No changes necessary | None given | Good. |
| Schuerman & Co | No changes necessary | None given | Good. |
| Newark Tool Co | No changes necessary | None given | Good. |
| M. Einwechter | No changes necessary | None given | Good. |
| J. Harding | Main belt to be guarded | None given | Good. |
| Clark Thread Co. | Mule pulleys to be guarded | Complied with. | Good. |
| George B. Jenkinson | Shafting of machine to be guarded | Complied with. | Good. |
| Simon Brothers | Circular saws to be guarded | Complied with. | Fair. |
| Lissa & Co | No orders necessary | None given | Good. |
| Edgar Farmer | No orders necessary | None given | Good. |
| Wm. O. Headley & Co | No orders necessary | None given | Good. |
| John Toler | No orders necessary | None given | Good. |
| George M. Ballard | No orders necessary | None given | Good. |
| Oscar Barnett | No orders necessary | None given | Good. |
| Campbell, Lane & Co | No orders necessary | None given | Good. |
| Ladies' Undergarments | Shafting to be guarded | Complied with | Good. |
| Ultramarine Works | One belt to be guarded | Complied with | Good. |
| Newark Co | No orders necessary | None given | Good. |

## CHANGES ORDERED AND CONDITION OF FACTORIES—SIXTH DISTRICT—Continued.

| Location and Name of Company. | Changes Ordered. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|
| Newark— | | | |
| Henry Le Fort | No orders necessary | None given | Good. |
| Pinnele, May & Co | No orders necessary | None given | Good. |
| A. Miline | No orders necessary | None given | Good. |
| Essex Watch Case Co | No orders necessary | None given | Good. |
| Watch Case Co | No orders necessary | None given | Good. |
| C. T. Williamson | No orders necessary | None given | Good. |
| Bogardus Art Co | Three belts to be guarded | Complied with | Good. |
| John Somers & Son | Two belts to be guarded | Complied with | Good. |
| J. H. Hatt's Sons | No orders necessary | None given | Good. |
| Dalrymple & Faitoute | No orders necessary | None given | Good. |
| Central Planing Mill | Two belts to be guarded | Complied with | Good. |
| Ripley & Sons | Two belts to be guarded | Complied with | Good. |
| Chapin Hall Lumber Co | Three belts to be guarded | Complied with | Good. |
| Newark Planing | | | |
| C. L. Miltz | No orders necessary | None given | Good. |
| J. G. & A. C. Leibe | No orders necessary | None given | Good. |
| M. Danklefsen | No orders necessary | None given | Good. |
| William King & Co | Three belts to be guarded | Complied with | Good. |
| William King (boxes) | No orders necessary | None given | Good. |
| Swain & Jones | No orders necessary | None given | Good. |
| Hedden & Son | No orders necessary | None given | Good. |
| Oliver Manufacturing Co | No orders necessary | None given | Good. |
| Searls, Randell & Co | No orders necessary | None given | Good. |
| Eagle Winker Co | Closet to be repaired | Complied with | Good. |
| P. Jones & Co | Elevator to be guarded | Complied with | Good. |
| Atlantic Window Shade Co | No orders necessary | None given | Good. |
| Franklin Murphy & Co | No orders necessary | None given | Good. |
| John L. Armitage | No orders necessary | None given | Good. |
| New Jersey Zinc Works | Two fly-wheels and three belts to be guarded | | Good. |
| Orange— | | | |
| Cummings & Mathews | Pulleys and shafts to be guarded | None given | Good. |
| No Name Hat Co | Pulleys to be guarded | None given | Good. |
| McGall, Allen & Co | Pulleys to be guarded | None given | Good. |
| Austin, Drew & Co | Fire-escape to be erected; shafting guarded | None given | Good. |
| Berg's | Fire-escape to be erected; closet for females; rail on stairway | None given | Good. |
| Puff & Yomans | No orders necessary | None given | Good. |
| McChesney & Fisher | No orders necessary | None given | Good. |
| Long & Co | No orders necessary | None given | Good. |
| Dougherty & Co | No orders necessary | None given | Good. |
| Harrup, Gist & Co | No orders necessary | None given | Good. |
| J. J. Perrine | Hand-rail on stairs | None given | Good. |
| A. B. Whiting | Shafting to be guarded | None given | Good. |
| Dy Kernan & Co | No orders necessary | None given | Good. |
| A. Brandes | No orders necessary | None given | Good. |
| Porter, Crawford & Co | No orders necessary | None given | Good. |
| Brannan & Co | Pulleys to be guarded | None given | Good. |
| Barry, Quinlan & Co | No orders necessary | None given | Good. |
| Smith & Sons | No orders necessary | None given | Good. |
| James Young & Son | No orders necessary | None given | Good. |
| Kearscher's | No orders necessary | None given | Good. |
| T. Walker | No orders necessary | None given | Good. |
| Berg's | Shafting to be guarded | None given | Fair. |
| C. W. Houghton | Entire building unfit for use and dangerous to employes | None given | Bad. |
| A. G. Glorer's | Very old buildings; ceilings very low; ventilation not good | None given | Fair. |
| C. Manus & Co | No orders necessary | None given | Good. |
| Jenkins, Dodd & Co | No orders necessary | None given | Good. |
| T. O. Engling | No orders given | None given | Good. |

## CHANGES ORDERED AND CONDITION OF FACTORIES—SIXTH DISTRICT—Continued.

| Location and Name of Company. | Changes ordered. | Disposition of previous orders. | Health and safety. |
|---|---|---|---|
| Orange— | | | |
| P. B. Fairchild | No orders necessary | None given | Good. |
| Smith & Dodd | No orders necessary | None given | Good. |
| Sland Cash Register Co. | No orders necessary | None given | Good. |
| Thomas S. Post | No orders necessary | None given | Good. |
| Bloomfield— | | | |
| P. Hayden | No orders necessary | None given | Good. |
| James Moffatt | No orders necessary | None given | Good. |
| R. S. Grummon | No orders necessary | None given | Good. |
| H. K. & F. S. Benson | No orders necessary | None given | Good. |
| V. Freeman & Co. | To guard shafting and fly-wheel | None given | Good. |
| De Laval Separator Co. | To guard fly-wheel | Complied with | Good. |
| James Cresp | One belt to be guarded | Complied with | Good. |
| Thomas Oaks & Co. | No orders necessary | None given | Good. |
| Combination Rubber Co. | To guard gearing | Complied with | Good. |
| S. Gilson | To provide new closet | Complied with | Good. |
| Ellor, Law & Co. | To provide separate closet for females | Complied with | Good. |
| Ellor Brother | To provide separate closet | Complied with | Good. |
| Thompson, Ellor & Co. | None necessary | None given | Good. |
| Medical and Surgical Plaster Co. | None necessary | None given | Good. |
| Millburn— | | | |
| H. Graves (hats) | No orders necessary | | Good. |
| F. Fourat (hats) | No orders necessary | | Good. |
| Diamond Mills | Belts and pulleys to be guarded | | Good. |
| A. L. Anderson | One belt to be guarded | | Good. |
| Dillon's Hat Factory | No orders | No orders | Good. |
| Brown's Hat Factory | No orders | No orders | Good. |
| Ward's Hat Factory | No orders | No orders | Good. |
| W. F. & J. H. Wade | Belt, pulleys and shafting to be guarded | No orders | Good. |
| J. L. Meeker | No orders necessary | No orders | Good. |
| Belleville— | | | |
| De Witt Wire Co. | No orders necessary | None given | Good. |
| P. Hogan | To guard belt and stairs | | Good. |
| Oscar Neiminger | No orders necessary | None given | Good. |
| Riverside Rubber Co. | To guard shaft and furnace; also belts | Complied with | Good. |
| Passaic Steam Laundry | Fo orders necessary | None given | Good. |
| Eastwood Chemical Co. | No orders necessary | None given | Good. |
| Eastwood Wire Co. | No orders necessary | None given | Good. |
| East Orange— | | | |
| Seabury Medical Plasters | Bridge connecting buildings ordered; also all gearing to be guarded | Complied with | Good. |
| E. J. Brooks R. R. Supplies | No orders necessary | None given | Good. |
| Spiral Weld Tube Co. | Fly-wheel and pulley to be guarded | Complied with | Good. |
| West Orange— | | | |
| Edison's Laboratory | No orders necessary | None given | Good. |
| George Cook | Belting to be guarded | Complied with | Good. |
| Whiting's Hat Factory | Shafting to be guarded | | Good. |
| H. Bulkley | No orders necessary | None given | Good. |
| Franklin— | | | |
| Kingsland's Paper Mill | Two belts to be guarded; also shaft | | Good. |
| Montclair— | | | |
| Samuel Crump & Co. | None ordered | None given | Good. |
| Maplewood— | | | |
| Maplewood Paper Mills | No changes necessary | None given | Good. |
| South Orange— | | | |
| South Orange Hat Co. | None ordered | None given | |

For accidents see pp 81 & 82

# THE NECESSITY OF STOPPING POWER QUICKLY IN CASE OF ACCIDENTS.

BY INSPECTOR CALLAN.

Inspector Callan read the following paper before the convention:

Notwithstanding the fact that many manufacturers have given careful attention to the work of placing proper safeguards around the dangerous parts of the machinery in use by them, and the strict enforcement of the laws bearing upon this subject by the Factory Inspector, it is still a lamentable fact that either through the carelessness or ignorance of the operator or where the machinery is of such a nature that it is not possible to guard it, accidents are continually occurring. This being the case the question arises, and look at it as we may, it is a very important one, and worthy of the most careful consideration of manufacturers, to know what should be done under the circumstances.

In my opinion it is to provide the quickest and best means that can be devised for stopping the power, in order that the unfortunate who happens to be caught may in the quickest possible time be extricated from the deadly hold of the flying pulley, the sharp and relentless teeth of the gearing, the clutch of the silently-revolving shaft or swift-gliding belt that catches up its victim, to be hurled around the ponderous fly-wheel to instant death.

What devices have we in use at present for stopping the power quickly? In the Sixth district of this department, comprising Essex county, I find several kinds of devices in use, and in some factories, I regret to say, there are none at all, but trust to luck to meet exigencies. Should an accident occur word must be sent to the engine-room, generally located in the basement or yard of the factory. Let us imagine for a moment the frightful torture of a fellow-being in being mangled by machinery, to whom seconds are ages, while word is being sent to stop the power, which is very often stopped too late, for death steps in and ends all suffering; or if not death, there remains only a

helpless cripple for life and a career of usefulness ruined, which might have been saved had the proper means of stopping the power promptly been at hand. Next to sending word to the engine-room I find a sort of signal in use by a certain number of knocks on the floor over the engine-room, understood when given and heard, to "Stop!"

Others again make use of a hole in the floor, through which communication with the engineer can be had. In many factories the loose pulley is used, and in a few there are speaking tubes and electric bells. But, with all these devices, giving due credit to each if they were a proper and effectual means of communication with the engineer, he is often obliged to be away from his engine, for in some of the factories visited I find that either through motives of economy or something else, their owners will not employ an engineer unless he is willing to be also a man of all work, and do odd jobs about the factory, such as cutting wood in the yard, or grooming the employer's horse in the stable. In one factory visited, employing two hundred hands with a forty-horse-power engine and large boiler located in the basement, I found the engine-room deserted, and the engineer, so-called, a boy seventeen years old, in the adjoining lot playing base-ball.

I think the sooner the laws of New Jersey are amended so that none but competent engineers will be permitted to run engines, the safer it will be for the lives and limbs of the working people of the State.

Now, just what seems to be wanted, and which will come nearest to the desired end, is a cut-off, which will stop the power immediately from any part of a factory, no matter whether the engineer be at his post or not.

There is such a device in use in one factory in Newark, which seems to answer this purpose. It is known as the "Electric Safety Stop," which by the mere pressing of a button, requiring no skill or special judgment to execute, will not only stop the swiftest power instantly, but the momentum also. The simplicity of the device, and the apparent positive nature of its action, leads me to commend it to all proprietors of factories and workshops who use steam power. It can be seen in operation at the shoe manufacturing establishment of E. E. Hogan, Central avenue, Newark, and those who have the safety of their employes at heart would do well to visit the place where it is in operation, and if it meets with their approval, to place it at once within the reach of the youngest child, the greatest novice or the least informed in their employ.

# UPON THE NECESSITY OF A SYSTEM OF FIRE DRILL IN FACTORIES.

BY INSPECTOR CALLAN.

Of all the dangers that threaten the lives of employes in the large and crowded factories of our cities and towns, the most imminent ever threatening, and that which needs to be most carefully guarded against is fire. So great is the fear of this deadly element that even the mere cry of fire, where none really existed, frequently caused panic, excitement and loss of life; it becomes, therefore, one of the highest duties of the Factory Inspectors, to whom the State has, in a special manner, entrusted the lives of many of its people, to study well this all-important subject, and to ascertain as far as possible the best means of prevention and escape. With this thought in view I gave much attention during the past year to this matter, and, as I visited the great factories in my district, noted down the different modes and contrivances that are in general use; and while I do not pretend to tell anything new, I may, perhaps, by mentioning this subject in my report, be the means of opening up avenues of thought on it to others.

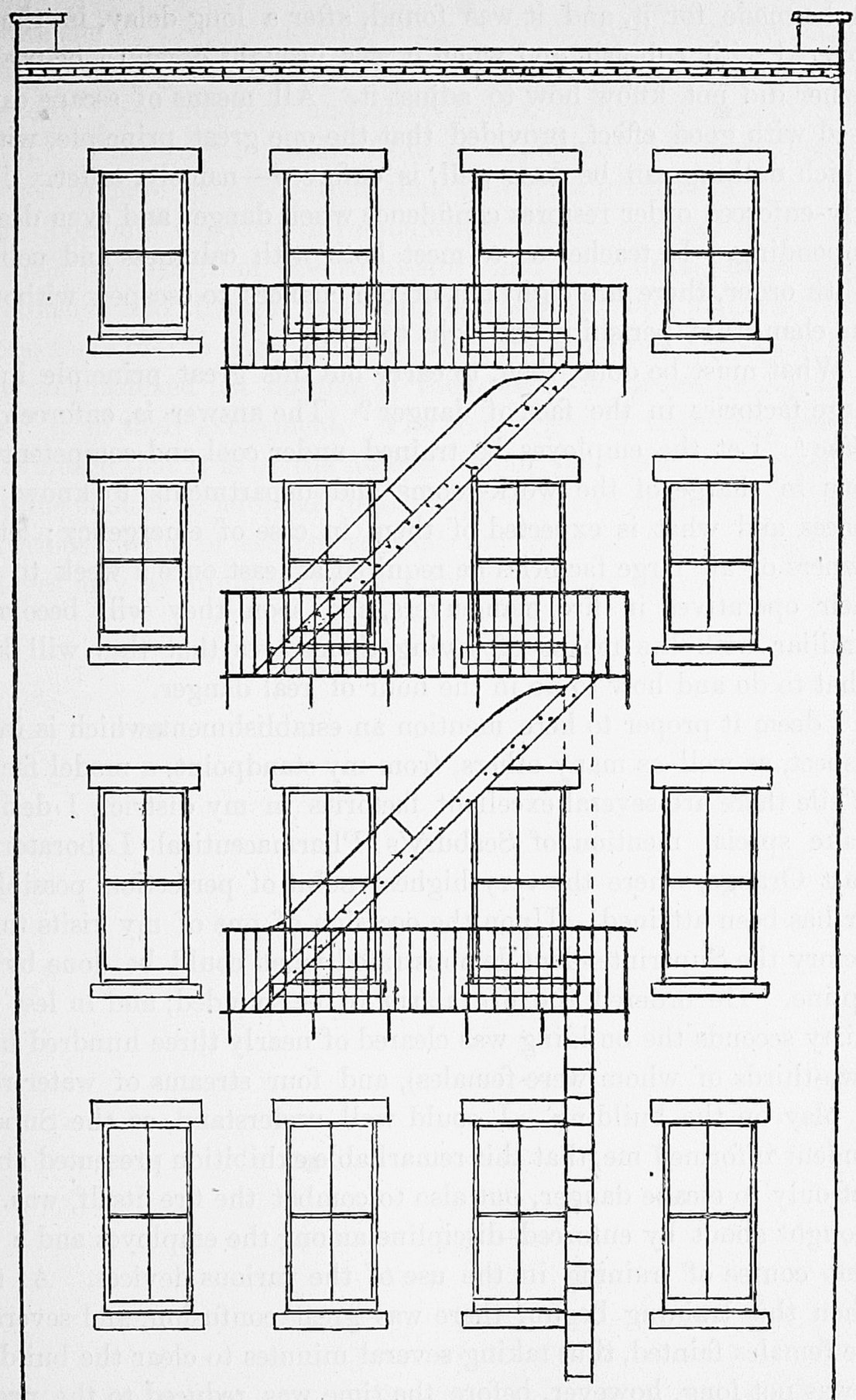
For the prevention of fire in the various factories visited, I have found almost every contrivance worthy of notice, namely: the steam pump, the stand-pipe and hose, the automatic sprinkler, the chemical engine, the portable fire extinguisher, the hand grenade, and water-tank with buckets and cups. The work-rooms of every large factory, particularly where easily-ignited or combustible goods are manufactured or used, should be supplied with all or most of these appliances. From what I can learn from those who have had occasion to use them, the automatic sprinklers are the most effective for work-rooms. The reasons given are that, being placed overhead, they will drench all parts of the room at once and with great expedition; besides, they are not an obstruction to egress, which many other contrivances are, especially where, as is often the case, there is but one means of exit.

For general use, the steam pump and chemical engine are considered the best. The portable extinguisher, hand grenades and buckets are good also, but no large factory should depend on them alone.

The modes of escape in general use are as follows: The tower stairway; the stout, outside iron ladder, with a landing at each story; the perpendicular ladder, reaching from the ground to the roof; the rope and pulley fire-escape, and the canvas shute. There are two other modes which some owners of factories are very anxious to impress on the mind of the Inspector as excellent escapes, but I cannot class them as such. One is the scuttle-hole in the roof, through which the employes can gain access to the roofs of adjoining buildings, and the other is the elevator. The former as a fire-escape is absurd, but as a means of exit it is better than none.

The elevator is always liable to accident, and, in time of fire, acts as a flue for the smoke and flames. In my judgment, a law should be enacted requiring that all elevator-doors should have a metal covering, and should be immediately closed upon the alarm of fire. The very best means of egress is the tower stairway; it is by this stairway that the operatives go to and from their work—they know it, are used to it, and prefer it to any other means. It should in all cases be properly constructed, and provided with doors that swing outward. Here let me say, in regard to doors, that I have found them opening in, out and both ways, and on slides and to be raised up. The law should, in my opinion, require that all outside doors, whether main or not, should open outward, and all inside doors should swing both ways.

The perpendicular iron ladder is not a good arrangement. It is so straight that few, especially females, could muster courage enough to descend it, even when moved by fear. It should be replaced as soon as possible by the slanting step-ladder escape, as illustrated on opposite page of this report. This is, I think, one of the best outside fire-escapes yet invented, and is less liable to accident than any of the others. The portable rope and pulley arrangement is good in its way, but should not be solely depended upon in large establishments, except as an adjunct, and then it should be always at hand and ready for use, and not thrown carelessly in some corner until needed, as I found it in a factory occupying the fourth floor of a large building where sixty girls were employed. The owner of this factory prided himself upon having an exemplary fire-escape. Being anxious to see it, search had



This diagram is intended to give a general idea only of an approved form of step-ladder fire-escape. The materials must be of the proper size and strength for the purpose and place for which it is to be used, and it must always be secured to the building in the best possible manner, as prescribed by Section 4 of the Act of 1887.

to be made for it, and it was found, after a long delay, in the attic covered with rubbish, and when it was brought down to be used the owner did not know how to adjust it. All means of escape can be used with good effect, provided that the one great principle, without which nothing can be done well, is enforced—namely, order. Properly-enforced order restores confidence when danger and even death is impending. It teaches us to meet both with calmness and courage. With order, there are eight out of ten chances to escape; without it, the chances of perishing are eight to ten.

What must be done, then, to carry out this great principle in our large factories in the face of danger? The answer is, enforce *discipline!* Let the employes be trained under cool and competent persons in charge of the work-rooms and departments, to know their places and what is expected of them in case of emergency; let the owners of all large factories be required at least once a week to drill their operatives in fire manœuvers, and soon they will become so familiar with the means of saving themselves that they will know what to do and how to do in the hour of real danger.

I deem it proper to here mention an establishment which is in this respect, as well as many others, from my standpoint, a model factory. While there are several excellent factories in my district, I desire to make special mention of Seabury's Pharmaceutical Laboratory, at East Orange, where the very highest point of perfection possible so far has been attained. Upon the occasion of one of my visits to this factory the Superintendent demonstrated what could be done by discipline. He ordered the fire alarm to be sounded, and in less than thirty seconds the building was cleared of nearly three hundred hands (two-thirds of whom were females), and four streams of water ready to play on the building. I could well understand, as the Superintendent informed me, that this remarkable exhibition presented ability not only to escape danger, but also to combat the fire itself, was only brought about by enforced discipline among the employes and a diligent course of training in the use of the various devices. At first, when this training begun, there was great confusion, and several of the females fainted, thus taking several minutes to clear the building; it was not long, however, before the time was reduced to the present standard. This goes to show not only for the protection of the employes, but for the employers also, what can be done when there is a system of fire drill in their works.

I consider it proper, in concluding, to mention another factory, in contrast with the one last spoken of—a lead-pencil factory, employing about three hundred and fifty hands, eighty of whom were females. A fire occurred there from an explosion of lead parings, or supposed to have occurred from that source; a great rush was made for the doors and windows in rooms where the fire was not near; several girls jumped from the third-story and were hurt, one of them dangerously, and though the building is well supplied with fire-escapes, some of the girls jumped from the windows which the fire-escape was fastened to; not one of them used the fire-escape, or even noticed it in their excitement. The comparison is, therefore, conclusive evidence that it is of the highest importance that some mode of discipline should be adopted in all large works in addition to having the various modes of escape, so that the greatest of all dangers to employes may be minimized to the lowest possible degree.

# FACTORY LAWS.

**An Act to limit the age and employment-hours of labor of children, minors and women, and to appoint an inspector for the enforcement of the same.**

Approved March 5th, 1883.

SECTION 1. That after the fourth day of July, one thousand eight hundred and eighty-three, no boy under the age of twelve years nor girl under fourteen years of age shall be employed in any factory, workshop, mine or other establishment where the manufacture of any goods whatever is carried on.

SEC. 2. That on and after the first day of July, one thousand eight hundred and eighty-four, no child between the ages of twelve and fifteen years shall be employed in any factory, workshop, mine or establishment where the manufacture of any kinds of goods whatever is carried on, unless such child shall have attended, within twelve months immediately preceding such employment, some public day or night school, or some well-recognized private school; such attendance to be for five days or evenings every week during a period of at least twelve consecutive weeks, which may be divided into two terms of six consecutive weeks each, so far as the arrangement of school terms will permit, and unless such child or his parent or guardian shall have presented to the manufacturer, merchant or other employer seeking to employ such child a certificate giving the name of his parents or guardian, the name and number of the schools attended and the number of weeks in attendance, such certificates to be signed by the teacher or teachers of such child; *provided,* that in case the age of the child be not known, such teacher shall certify that the age given is the true age to the best of his or her knowledge and belief; *provided,* that in case of orphan children, where necessity may seem to require, the guardian or others having charge of the same may, upon application to the inspector provided for in this act, receive from him a permit

for the employment of such child or children, under such regulations as the said inspector may prescribe.

SEC. 3. Repealed.

SEC. 4. Amended and supplied by section five of the act of 1884.

SEC. 5. That the governor shall, immediately after the passage of this bill, appoint, with the advice and consent of the senate, some suitable person, who shall be a resident and citizen of this state, as inspector; the said inspector shall be empowered to visit and inspect, at all reasonable hours and as often as practicable, the factories, workshops, mines and other establishments in the state where the manufacture or sale of any kind of goods is carried on, and to report to the governor of this state on or before the thirty-first day of October in each year; it shall also be the duty of said inspector to enforce the provisions of this act, and prosecute all violations of the same in any recorders' courts of cities and justices of the peace of competent jurisdiction in the state.

SEC. 6. Amended and supplied by section three of the act of 1889.

SEC. 7. Amended and supplied by section one of the act of 1884.

SEC. 8. That all acts and parts of acts inconsistent with this act are hereby repealed, and that this act shall take effect immediately.

## Supplement.

Approved April 17th, 1884.

SECTION 1. That the title of the inspector under the act to which this act is a supplement, and the deputies hereinafter provided for, shall be respectively, "factory and workshop inspector" and "deputy inspectors," and it shall be their duty to enforce the provisions of this act, and all other laws relating to the sanitary condition of factories and workshops, and to the employment, safety, protection and compulsory attendance at school of minors, and to institute all suits or actions in the name of the inspector, as in the fifth section hereof provided, for the violations of any of the provisions of this act, or the act to which this act is a supplement, but no action shall be begun by any deputy inspector without the written directions of the inspector; and in case of judgment, or the penalty of any such suit so instituted, the same shall be paid into the treasury of the state, to be used to defray the necessary expenses of the inspector and his deputies.

SEC. 2. Amended and supplied by section one of the act of 1889.

SEC. 3. That the inspector and his deputies shall have power to demand a certificate of physical fitness from some regular practicing physician in the case of minors who may seem to them physically unable to work, and shall have power to prohibit the employment of any minor that cannot obtain such certificate.

SEC. 4. That any parent or guardian, when so required by the inspector or one of his deputies, shall furnish to such inspector or deputy a certificate from the office of registration and birth, or in the absence of such certificate, an affidavit or affidavits, of the age of such minor; and if any one shall knowingly swear falsely in any such affidavit, the person or persons so swearing shall be guilty of perjury and liable to indictment and punishment accordingly.

SEC. 5. That section four of the act to which this is a supplement shall be amended to read as follows:

[That every manufacturer, merchant or other employer employing any person contrary to the provisions of this act, or who shall be guilty of any violation hereof, shall be liable to a penalty of fifty dollars for each offense, to be recovered in an action of debt in any district court in any city, or before any justice of the peace having due jurisdiction; and that any parent or guardian who knowingly permits the amployment of such child or children shall be liable in a like action to a penalty of not more than fifty dollars, as the court shall fix; that such action shall be prosecuted in the name of the inspector, the trial shall proceed as other actions of debt and the first process shall be a summons, returnable in not less than five days or more than ten days after issue, and it shall not be necessary to indorse the same as in qui tam actions; the finding of the court shall be that the defendant has or has not, as the case may be, incurred the penalty claimed in the demand of the plaintiff, and judgment shall be given accordingly; in case an exceution shall issue and be returned unsatisfied, the court, on application, after notice to the defendant, may award an execution to take the body of the defendant, and in case such a defendant is committed under such an execution, he shall not be discharged under the insolvent laws of the state, but shall only be discharged by the court making the order for the body execution, or one of the justices of the supreme court, when such court or justice shall be satisfied that further confinement will not accomplish the payment of the judgment and costs; an affidavit of the age of any minor made by its parent or guardian at the time of its employment shall be con-

clusive evidence of the age of such minor upon any trial against a manufacturer or employer for the violation of this act, but any parent or guardian who shall knowingly swear falsely in such affidavit shall be guilty of perjury, and the inspector or deputy inspector shall be authorized, in case they shall find any minor employed under any false affidavit given as aforesaid, to order and compel such minor to desist from work; the provisions of this act in relation to the hours of employment shall not apply to or affect any person engaged in preserving perishable goods in fruit-canning establishments.]

SEC. 6. Amended and supplied by section three of the act of 1889.

SEC. 7. That all acts and parts of acts be and the same are hereby repealed.

### Supplement.

Approved March 22d, 1886

SECTION 1. Amended and supplied by section one of the act of 1889.

SEC. 2. That the inspector of factories and workshops and his deputies shall be furnished with certificates of authority by the secretary of state, and that they shall produce the same if so required by any occupier of a factory, mine, workshop or establishment.

SEC. 3. That it will be illegal for any one to personate an inspector of factories or forge his certificate of authority.

SEC. 4. That it will be illegal for any one to delay the inspector in the exercise of the duties, or conceal or attempt to conceal any child or children from examination by the inspectors.

SEC. 5. That every manufacturer, merchant or other person who shall be guilty of any violation of the provisions of this act, shall be liable to a penalty of fifty dollars for each offense, to be recovered in an action of debt, in the manner provided in section four of the act to which this is a supplement.

SEC. 6. That all acts and parts of acts inconsistent, be and the same are hereby repealed.

### A General Act relating to factories and workshops, and the employment, safety, health and work-hours of operatives, approved April seventh, one thousand eight hundred and eighty-five.

Amendments approved May 6th, 1887.

SECTION 1. BE IT ENACTED *by the Senate and General Assembly of the State of New Jersey*, That any person or corporation engaged in

manufacturing, which requires from persons in his or its employ, under penalty of forfeiture of a part of the wages earned by them, a notice of intention to leave such employ, shall be liable to the payment of a like forfeiture if he or it discharges without similar notice a person in such employ, unless in case of a general suspension of labor in his or its shop or factory.

Section 2 as amended:

[SEC. 2. That all accidents in workships, factories or mines, which prevent the injured person or persons from returning to work within two weeks, or which result in death, shall, within twenty-four hours after the expiration of such two weeks, or after the death, as the case may be, be reported by the person in charge of such workshop, factory or mine, to one of the factory inspectors and to the city or district physician, where there is such an officer, which notice may be given by mail.]

SEC. 3. That the belting, shafting, gearing and drums in all factories and workshops, when so placed as to be dangerous to persons employed therein while engaged in their ordinary duties, shall be securely guarded when practicable (possible); if otherwise, then notice of its danger shall be conspicuously posted in the factory or workshop.

Section 4 as amended:

[SEC. 4. That no minor or woman shall clean any part of the mill gearing or machinery in any factory or workshop while the same is in motion, or work between the fixed or traversing parts of any machine while it is in motion by the action of steam, water or other mechanical power.]

SEC. 5. That the openings of all hoistways, hatchways, elevators and well-holes upon every floor of a factory or mercantile or public building, shall be protected by good and sufficient trap-doors or self-closing hatches and safety catches, or strong guard rails at least three feet high, and all due diligence shall be used to keep such trap-doors closed at all times, except when in actual use by the occupant of the building having the use and control of the same.

SEC. 6. That no explosive or inflammable compound shall be used in any factory, in such place or manner as to obstruct or render hazardous the egress of operatives in case of fire.

SEC. 7. That no minor under the age of sixteen shall be employed in any manufacturing, mercantile or mechanical establishment more than ten hours a day or sixty hours a week.

SEC. 8. That suitable places shall be provied in all factories and workshops where girls or women are employed, where unclean work of any kind has to be performed, for such girls or women to wash and dress, and that stairs in use by female employes in all factories and workshops be properly screened.

SEC. 9. That separate water-closets be provided for the use of employes of either sex in all manufacturing, mercantile and mechanical establishments where persons of both sexes are employed.

SEC. 10. That where the factories or workshops appear so overcrowded, that in the opinion of the inspector of factories there is danger to health, the inspectors shall have power, after being supported in their opinion by some reputable resident physician, to prohibit such overcrowding.

SEC. 11. That the inspectors of factories shall have power to order a fan or other mechanical means of proper construction, if practicable, for the purpose of preventing the inhalation of dust in establishments where any process is carried on by which dust is generated and inhaled by the workers to an injurious extent.

SEC. 12. That all factories and mines be ventilated so as to render harmless all impurities as near as may be.

SEC. 13. That no cellar, room or place shall be occupied as a bake-house, which is less than one-half of its height above the level of the street, footway or ground adjoining the same, unless the following regulations are complied with: First, no water-closet, earth-closet, privy or ash-pit, shall be within or communicate directly with the bake-house; second, no drain or pipe for carrying off sewage or other impure matter shall have an opening within a bake-house, unless such drain or pipe be trapped with a six-inch water-seal, both within and without the wall of the bake-house, and have a ventilating pipe of one-half the size of drain-pipe between the wall and the outer trap, and which ventilating pipe shall run two feet above the roof of building.

SEC. 14. That the sleeping-places for workmen and others employed in bake-houses shall be separate and distinct from the places used for the making of bread.

Section 15 as amended:

[SEC. 15. That any person or corporation, being the owner, lessee or occupant of any manufacturing establishment, factory, mine, workshop or store, or owning or controlling the use of any building

or room, shall, for the violation of any provision of this act, or of the act to which this is a supplement, be liable to a penalty of fifty dollars for each offense, to be recovered in an action of debt in any district court in any city, or before any justice of the peace having due jurisdiction, and that any employe who shall be guilty of any violation of the provisions of this act shall be liable in a like action to a penalty of not more than fifty dollars, as the court shall fix; that such action shall be prosecuted in the name of the inspector of factories; the trial shall proceed as other actions upon contract, and the first process shall be a summons, returnable in not less than five days or more than ten days after issue, and it shall not be necessary to indorse the same as in qui tam actions; the finding of the court shall be that the defendant has or has not, as the case may be, incurred the penalty claimed in the demand of the plaintiff, and judgment shall be given accordingly; in case an execution shall issue and be returned unsatisfied, the court, on application, after notice to the defendant, may award an execution to take the body of the defendant; and in case such a defendant is committed under such an execution, he shall not be discharged under the insolvent laws of the state, but shall only be discharged by the court making the order for the body execution, or one of the justices of the supreme court, when such court or justice shall be satisfied that further confinement will not accomplish the payment of the judgment and costs.]

Other sections of the act of 1887:

SEC. 4. That all factories, manufacturing establishments or workshops of two or more stories in height, in which thirty or more persons are employed above the first floor thereof, shall be provided with one or (if the proper officials deem necessary) more outside iron fire-escapes, not less than six feet in length and three feet in width, properly and safely constructed, guarded by iron railings not less than three feet in height, and taking in at least two windows at each story, and connected with the interior by easily-accessible and unobstructed openings; and the said fire-escapes shall connect by iron stairs not less than twenty-four inches wide, the steps to be not less than six inches tread, placed at not more than an angle of forty-five degrees slant, and protected by a well-secured hand rail on both sides, with a twelve-inch-wide drop ladder from the lower platform reaching to the ground.

SEC. 5. That for every twenty persons employed on every floor above the second floor of every factory and workshop there shall be

one rope or portable fire-escape, and that each story shall be amply supplied with means for extinguishing fire.

SEC. 6. That all the main doors, both inside and outside, in factories, shall open outwardly, when the inspectors of factories, in writing, so direct, and that no outside or inside door of any building wherein operatives are employed, shall be so locked, bolted or otherwise fastened during the hours of labor, as to prevent egress.

SEC. 7. That no minor below the age of sixteen shall be employed at any work dangerous to health, without a certificate of fitness from a reputable physician.

SEC. 8. That factories and workshops in which women and children are employed and where dusty work is carried on, shall be limewashed or painted at least once in every twelve months.

SEC. 9. That an abstract of the factory and workshop laws to be prepared and furnished by the chief factory inspector, shall be affixed in a conspicious place at the entrance of every factory and workshop.

SEC. 10. That if the inspector of factories find that the heating, lighting, ventilation or sanitary arrangement of any shop or factory is such as to be injurious to the health of persons employed therein, or that the means of egress, in case of fire or other disaster, is not sufficient, or that the belting, shafting, gearing, elevators, drums and machinery in shops and factories are located so as to be dangerous to employes and not sufficiently guarded, or that the vats, pans or structures filled with molten metal or hot liquid are not surrounded with proper safeguards for preventing accident or injury to those employed at or near them, he shall notify the proprietor of such factory or workshop to make the alterations or additions necessary within thirty days; and if such alterations or additions are not made within thirty days from the date of such notice or within such time as said alterations can be made with proper diligence upon the part of said proprietors, said proprietors or agents shall be deemed guilty of violating the provisions of this act; it shall then be the duty of the inspectors to examine the matter in dispute, and, if adverse to the appellant, he shall carry out the alterations or additions directed by said inspectors within thirty days as aforesaid, and under the like penalty.

SEC. 12. That all acts or parts of acts inconsistent with the provisions of this act be and are hereby repealed.

**A Further Supplement to an act entitled "A general act relating to factories and workshops, and the employment, safety, health and work-hours of operatives," approved April seventh, one thousand eight hundred and eighty-five.**

Approved May 13th, 1889.

1. BE IT ENACTED *by the Senate and General Assembly of the State of New Jersey*, That every building now or hereafter used, in whole or in part, as a public building, public or private institution, school-house, church, theater, public hall, place of assemblage or place of public resort, and every building in which twenty or more persons are employed above the second story in a factory, workshop, or mercantile or other establishment, and every hotel, lodging-house, or tenement-house, in which ten or more persons lodge or reside above the second story, and every factory, workshop, mercantile or other establishment, the owner, lessee or any one having control of such buildings, of which is notified in writing by the inspector of factories and workshops, or one of his deputies for the district in which any such building may be located, shall be provided with proper ways of egress or other means of escape from fire, sufficient for the use of all persons accommodated, assembling, employed, lodging or residing in such building or buildings, and such ways of egress and means of escape shall be kept free from obstruction, in good repair and ready for use; every room above the second story in any such building in which twenty or more persons are employed shall be provided with more than one way of egress, by stairways on the inside or outside of the building; stairways on the outside of the building shall be kept clear of ice and snow and other obstructions; women or children shall not be employed in a factory, workshop, or mercantile or other establishment in a room above the second story from which there is only one way of egress; all doors in any building subject to the provisions of this section shall open outwardly if the inspector or one of his deputies shall so direct in writing; no portable seats shall be allowed in the aisles or passage-ways, of such building during any service or entertainment held therein; the proscenium or curtain-opening of all theaters shall have a fire-resisting curtain of some incombustible material, and such curtain shall be properly constructed, and shall be operated by proper mechanism; the certificate of the inspector of factories and workshops or one of his deputies shall be conclusive evidence of a compliance with such requirements.

2. *And be it enacted,* That it shall be the duty of such inspector of factories or workshops, or his deputies, to examine as soon as may be after the passage of this act, and thereafter from time to time, all buildings within his district subject to the provisions of this act; a copy of this act shall be kept posted in a conspicuous place in every such building by the persons occupying the premises covered thereby.

3. *And be it enacted,* That upon an application being made to the inspector of factories and workshops for the granting of a certificate under this act, he shall issue to the person making the same an acknowledgment that such certificate has been applied for, and pending the granting or refusal of such certificate such acknowledgment shall have for a period of ninety days the same effect as such certificate, and such acknowledgment may be renewed by said inspector with the same effect for a further period not exceeding ninety days, and may be further renewed by said inspector until such time as such certificate shall be granted or refused by him.

4. *And be it enacted,* That in case any change is made in any premises for which a certificate has been issued under this act, whether in the use thereof or otherwise, such as terminates the effect of such certificate as above provided in section two, it shall be the duty of the person making the same to give written notice thereof forthwith to said inspector of factories or workshops.

5. *And be it enacted,* That in case any building or portion thereof subject to the provisions of this act is found by the said inspector or one of his deputies to fail to conform to the provisions of this act, or in case any change is made in such building or portion thereof, such as terminates the effect of a certificate formerly granted therefor as aforesaid, it shall be the duty of the inspector of factories and workshops to give notice in writing to the owner, lessee or person who may have control of such building, specifying and describing what additional ways of egress or means of escape from fire are necessary in the opinion of said inspector in order to conform to the provisions of this act, and to secure the granting of a certificate as aforesaid; notice to any agent of such owner, lessee or occupant in charge of the premises, shall be sufficient notice under this section to such owner, lessee or occupant.

6. *And be it enacted,* That in case any building subject to the provisions of this act is owned, leased or occupied jointly or in severalty, by different persons, any one of such persons shall have the right to

apply to any part of the outside of such building, and to sustain from any part of the outside wall thereof, any way of egress or means of escape from fire, specified and described by the inspector as above provided, notwithstanding the objection of any other such owner, lessee or occupant; and any such way of egress or means of escape may project over any highway, street or alley.

7. *And be it enacted,* That every story above the second story of a building subject to the provisions of section one, shall be supplied with means of extinguishing fire, consisting either of pails of water or other portable apparatus, or of a hose attached to a suitable water-supply, and capable of reaching any part of such story; and such means of extinguishing fire shall be kept at all times ready for use and in good condition.

8. *And be it enacted,* That it shall be the duty of every owner, lessee or occupant of any building or part thereof, subject to this act, to cause the provisions thereof to be carried out, and any owner, lessee or occupant failing to observe such provisions, shall be subject to a fine of not less than fifty nor more than five hundred dollars; but no prosecution therefor shall be brought until four weeks after written notice from the inspector of factories and workshops, or one of his deputies, as above provided, of the changes necessary to be made in order to conform thereto, nor then, if in the meantime such changes have been made in accordance with such notification; notice to one member of a firm or a corporation, or the person in charge of the premises, shall be deemed sufficient notice hereunder, and such notice shall be given in person; any such owner, lessee or occupant shall be liable for all damages caused by his violation of the provisions of this act; any person using or occupying a building contrary to the provisions of this act may be enjoined from such use or occupation in a proceeding to be had before any court of competent jurisdiction at the instance of the inspector, and upon the filing of a petition or bill of complaint therefor, the court in which such proceeding is pending may issue a temporary injunction or restraining order, as provided in proceedings in equity and according to the practice of such court.

9. *And be it enacted,* That each and every person employing labor, his officers, agents and employes, and any person or persons, owner or lessee of any building, mentioned in section one of this act, located within this state, shall, on demand of the inspector of factories

and workshops, or any of his deputies, for admission to any such building, immediately admit thereto such inspector of factories and workshops, or his said deputy, and such owner, lessee or occupant, his officers, agents and employes, shall afford such inspector or deputy full and free access to any room or apartment of any such building, and each of such persons hereby is required, if thereto requested by such inspector or deputy, to answer such questions as may be asked by such inspector or deputy, and if so requested by such inspector or deputy, to render a true account in writing to such inspector or deputy, to the best of his knowledge, of every person or employe then belonging to such building, regarding the various matters mentioned in this act, and whoever shall willfully fail or refuse to immediately answer such question, or to render such written report to such inspector or deputy as aforesaid, shall be guilty of a misdemeanor, and upon conviction thereof, shall forfeit and pay a sum not less than fifty dollars and not exceeding one hundred dollars; and every president, treasurer, secretary, general agent or manager, director of any manufacturing corporation located or employing labor in this state, or the owner, lessee or occupant of any building or institution mentioned in section one of this act, from which answers to any question or the rendition of the written report are herein required to be made, who shall willfully neglect or refuse to give true or complete answers to any inquiries, or render a written report, as required by this section, such person, officer or agent shall forfeit and pay a sum not less than fifty dollars nor more than one hundred dollars, to be recovered in action of debt, to be instituted by the prosecutor of the pleas of the proper county in any court of competent jurisdiction, in the name and for the use of the county wherein such violation occurs.

10. *And be it enacted*, That all fines from penalties imposed by this act may be enforced by indictment or appropriate action at law in any court of competent jurisdiction of the county wherein such offenses have been committed or forfeitures incurred.

11. *And be it enacted*, That all acts and parts of acts, general, special, local, public or private, inconsistent with the provisions of this act, be and the same are hereby repealed, and this act shall be a public act and shall take effect immediately.

## COMPULSORY EDUCATION LAW.

Here is the text of the act providing for the compulsory education of children, to whose practical working and defective enforcement, so far as I have observed, I desire to call attention.

**A Supplement to an act to establish a system of public instruction, approved April ninth, one thousand eight hundred and seventy-five.**

Approved April 20th, 1885.

SECTION 1. BE IT ENACTED *by the Senate and General Assembly of the State of New Jersey*, That all parents, and those who have the care of children, shall instruct them or cause them to be instructed in spelling, reading, writing, English grammar, geography and arithmetic, and every parent, guardian or other person having control and charge of any child or children between the ages of seven and twelve years, shall be required to send any such child or children to a public day school for a period of at least twenty weeks in each year, eight weeks, at least, of which attendance shall be consecutive, unless such child or children are excused from such attendance by the board of the school district in which such parents or guardians reside, upon its being shown to their satisfaction that the bodily or mental condition of such child or children has been such as to prevent his, her or their attendance at school, or that such child or children are taught in a private school, or at home, by some qualified person or persons, in such branches as are usually taught in primary schools.

SEC. 2. That no child under the age of fifteen years shall be employed by any person, company or corporation to labor in any business whatever, unless such child shall have attended, within twelve months immediately preceding such employment, some public day or night school, or some well-recognized private school; such attendance to be for five days or evenings every week during a period of at least twelve consecutive weeks, which may be divided into two terms of six consecutive weeks, each, so far as the arrangement of school terms will permit, and unless such child, or his or her parents or guardian, shall have complied with the provisions of the act approved March fifth, eighteen hundred and eighty-three, limiting the employment-hours of the labor of children.

SEC. 3. That every parent, guardian or other person having charge

or control of any child, from twelve to sixteen years of age, who has been temporarily discharged from employment in any business in order to be afforded an opportunity to receive instruction or schooling, shall send such child to some public or private day school for the period for which such child shall have been discharged, unless such child shall have been excused from such attendance by the inspectors of factories and workshops, or by the board of the school district, for reasons as stated in section one hereof.

SEC. 4. That in case any parent, guardian or other person shall fail to comply with the provisions of sections one and three of this act, such parent, guardian or other person shall be deemed guilty of a misdemeanor, and shall, on conviction, be liable to a fine of not less than ten dollars nor more than twenty-five dollars for the first offense, and of not less than twenty-five dollars for each subsequent offense, or to imprisonment for not less than one month or more than three; the said fines, when paid, to be added to the public school money of said school district in which the offense occurred.

SEC. 5. That all children between the ages of seven and fifteen years, who are habitual truants from school, or who, while in attendance at any public school, are incorrigible, vicious or immoral in conduct, and all children between the said ages who absent themselves habitually from school, and habitually wander about streets and public places during school hours, having no business or lawful occupation, shall be deemed juvenile disorderly persons and subject to the provisions of this act.

SEC. 6. That in all cities having a duly-organized police force, it shall be the duty of the police authority, at the request of the inspectors of factories and workshops, or of the school authority, to detail one or more members of said force to assist in the enforcement of this act, and in districts having no regular police force, subject to this act, it shall be the duty of the board of education or the school district officers to designate one or more constables of said city, township or village, whose duty it shall be to assist in the enforcement of this act, as occasion may require, and said board of education shall fix and determine the compensation to be paid such police officer or constable for the performance of his duties under the act; members of any police force or any constable designated to assist in the enforcement of this act, as provided in this section, shall be known as truant-officers; *provided*, that in districts where no constable resides, the

said board shall have power to appoint some other suitable person as truant-officer.

SEC. 7. That it shall be the duty of any such truant-offcer or officers detailed to enforce the provisions of this act to examine into all cases of truancy, when requested so to do by the inspectors of factories and workshops, or by a district school board, and to warn such truants, their parents or guardians, in writing, of the final consequences of truancy, if persisted in, and also to notify the parent, guardian or other person having the legal charge and control of any juvenile disorderly person, that the said person is not attending any school, and to require said parent, guardian or other person to cause the said child to attend some recognized school within five days from said notice, and it shall be the duty of said parent, guardian or other person having the legal charge and control of said child, to cause the attendance of said child at some recognized school; if said parent, guardian or other person having the legal charge and control of said child shall willfully refuse, fail or neglect to cause said child to attend some recognized school, it shall be the duty of said officer to make or cause to be made a complaint against said parent, guardian or other person having the legal control and charge of such child, in any court of competent jurisdiction in the school district in which the offense occurred, for such refusal or neglect, and upon conviction thereof said parent, guardian or other person, as the case may be, shall be punished by a fine of not less than ten dollars nor more than twenty-five dollars, or the court may, in its discretion, require the person so convicted to give bond in the penal sum of one hundred dollars, with one or more sureties, to be approved by said court, conditioned that said person so convicted shall cause the child or children under his or her legal charge or control to attend some recognized school within five days thereafter, and to remain at said school during the term prescribed by law; *provided,* that if said parent or guardian, or other person in charge of said child, shall prove inability to cause said child to attend said recognized school, then said parent or guardian, or other person, shall be discharged, and said court shall, upon complaint of said truant-officer or other person that said child is a juvenile disorderly person, as described in section five of this act, proceed to hear such complaint, and if said court shall determine that said child is a juvenile disorderly person within the meaning of this act, then said court shall thereupon sentence said child to a juvenile reformatory until such

child shall arrive at the age of sixteen years, unless sooner discharged by the board of control of said juvenile reformatory; *provided, however*, that such sentence may be suspended in the discretion of said court for such time as the child shall regularly attend school and properly deport himself or herself; *it is further provided*, that if for any cause the parent or guardian, or other person having charge of any juvenile disorderly person as defined in this act, shall fail to cause such juvenile disorderly person to attend said recognized school, then complaint against such juvenile disorderly person may be made, heard, tried and determined in the same manner as is provided for in case the parent pleads inability to cause said juvenile disorderly person to attend said recognized school; *and it is further provided*, that no child under the age of nine years shall be sent to a juvenile reformatory under the provisions of this act.

SEC. 8. That it shall be the duty of the officers empowered, detailed or appointed under the provisions of this act to assist in the enforcement thereof, to institute or cause to be instituted, proceedings against any parent, guardian or other person having legal charge and control of any child, or any person, company or corporation violating any of the provisions of the sections of this act; *provided*, this law shall not be operative in those school districts of the state where there are not sufficient accommodations to seat the children compelled to attend school under the provisions of this act; and that no prosecution shall be instituted against any parent, guardian or child unless they have received due notification from an officer empowered under this act that they are acting in violation of the provisions of this act.

SEC. 9. That when there is not within the distance of two miles from the factory or shop in which a child under the age of fifteen years is employed, or from the residence of the child, a recognized efficient school, attendance at a school temporarily approved by an inspector of factories and workshops shall for the purpose of this act be deemed attendance at a recognized efficient school, and the inspector of factories shall immediately report to the education department every case of the approval of a school by him under this section.

SEC. 10. That two weeks' attendance of children between twelve and fifteen years of age at a recognized half-time or evening school shall for all purposes of this act be counted as one week at a day school.

SEC. 11. That when any of the provisions of this act are violated by a corporation, proceedings may be had against any of the officers or

agents of said corporation who in any way participate in or are cognizant of such violation by the corporation of which they are the officers or agents, and said officers or agents shall be subject to the same penalties as individuals similarly offending.

SEC. 12. That all acts and parts of acts inconsistent with this act are hereby repealed, and that this act shall take effect on the first day of September, one thousand eight hundred and eighty-five.