

628.16

72

Walt

628.16

Given by
Mr. B. R. Smith.

AD 18

New York Filter Company

CAPITAL, \$1,500,000

CHICAGO BRANCH:
85 Dearborn Street.

145 Broadway, New York.

ST. LOUIS BRANCH:
304 North 4th Street.

New York Filter Co.,

CAPITAL, \$1,500,000.

OWNING THE PATENTS (OVER ONE HUNDRED IN NUMBER)

... OF ...

HYATT PURE WATER CO.

U. S. PURE WATER SUPPLY CO.

NATIONAL WATER PURIFYING CO.

AMERICAN FILTER CO.

BLESSING FILTER.

145 Broadway, New York,

W. M. DEUTSCH, Manager.

At Atlanta, Ga., during the months of January and February, only 5-10 grain to the gallon were necessary.

AN INCONCEIVABLE PROPORTION.

One drop in one hundred is an appreciable proportion, and would probably impart a slight taste; one drop in one thousand is scarcely comprehensible and only an exceedingly sensitive palate could detect it; one drop in ten thousand could not possibly impart any taste; but one drop in one hundred thousand is inconceivable, and if never removed it could not be discerned.

NO LONGER PRESENT.

The chief reason why it cannot be discerned is this: The moment it is diffused through the water it completely disintegrates, and its constituent elements unite with others, always found in water, forming new and more permanent attachments. Thus its own form and the forms of all the impurities with which its separated elements come in contact are changed. They instantly flock together in little masses, a hundred or a thousand in one; and then, *as the water passes through the Filter, they are removed altogether.*

NO TRACE OF COAGULANT.

It has already been stated that no trace of the coagulant used to purify the water remains in it after filtration. In confirmation of this we present the following from the eminent Professor Chandler and others:

NEW YORK, January 25th, 1887.

To the Water Commssioners of the City of Newburgh:

In accordance with your request for an opinion upon the proposed system of filtration and purification of the

water supply of Newburgh, which is now under consideration by your Board, I have the honor to report that I have carefully considered the proposition in all its details, and that I have made such investigations as seemed neccessary. First, as to the efficiency of the proposed apparatus and process. Secondly, as to the healthfulness of the process and the materials to be employed.

I have carefully read all the documents which you placed in my hands, in which the details of the apparatus and its mode of operation are given; a variety of reports as to the success of the process in other localities, and the report of Captain Thomas W. Symons made to the War Department and transmitted to the United States Senate in response to a special resolution in which a similar project for the purification of the water of the city of Washington was fully discussed. Everything contained in these various documents is entirely satisfactory, and I think I should have felt warranted in expressing an opinion favorable to the plans proposed for the city of Newburgh without investigating the matter further. Finding, however, that the process was in full operation in New Jersey, on the Raritan River, I made a visit to the Water works of Somerville, from which this town as well as the town of Raritan is supplied. I made a careful inspection of the apparatus at this point, saw it in full operation, and also the four filters emptied and cleaned. The apparatus is very compact, the washing of the filtering material is almost automatic; it is accomplished in a few minutes, and appears to be perfect in its operation and efficiency. The quantity of alum being used at the time I was there was 25 pounds per day; on 400,000 gallons of water this would be 175,000 grains of alum, or about $\frac{1}{8}$ grain per gallon.

At the time of my visit the water of the Raritan River was not heavily charged with mud, but it contained a sufficient quantity of very fine material to give it a milky opalescence. This is a condition which imposes

the most severe attacks on a filtering system, but I found that the water as it came from the filters was as clear as crystal. I took samples of the river water, the same after the alum had been added, and again after filtration, and carefully examined them to verify the statements made to me by the man in charge. I found that there was without doubt an addition of alum to the water before it went to the filters, and I should judge in about the proportions mentioned by the attendant. I found that the filtered water *did not contain a trace of alum*, it having been *entirely removed by the filter*. I then experimented myself upon the Raritan water to see if the addition of so small a quantity of alum would actually affect at once the coagulations claimed, and I found that it did; that my investigation of the samples *completely confirmed* the claims of the Filtering Company, and the statements of the man in charge of the apparatus at Somerville.

It then occurred to me that it would be desirable to ascertain if the water of the city of Newburgh would behave in the same way when submitted to the action of the coagulants, which it is proposed to use, so I visited your city, as you are aware, and took a sample of water from Washington Lake and also a sample from the city hydrant. These I have carefully tested in connection with the proposed process, and I find that on adding alum to the Newburgh water there is an immediate coagulation, and that the flocculent precipitate is one that can be *readily removed by filtration*. The examinations which I made of the Raritan water, as well as of the Newburgh water, satisfy me that a process which is successful at Raritan cannot fail to be successful at Newburgh.

In conclusion, I would say that in my opinion the plan which you now have under discussion is simple, efficient and economical, and that *no objection whatever* can be found to it on sanitary grounds; in fact, it seems to me to be the only feasible plan which you can adopt, as the only alternative would be a system of filter beds, which are *much more expensive* to construct and *much more expensive* to maintain, and *not as satisfactory* in the end.

Respectfully yours,

C. F. CHANDLER, M. D., Ph. D.,
Chemist and Assayer.

CHICAGO, Ill., May 4th, 1886.

New York Filter Co.:

GENTLEMEN:—The New York Filter at my house, attached to the Lake water-service pipe, supplying all the water I use, has been in operation about six weeks. Naturally, I have watched it closely, day by day, with this result, viz: It takes out all impurities, leaving the water sparkling and clear. It is a pleasure simply to look at it, to say nothing of the satisfaction felt in knowing that you drink water and give it to your family free from sewage and other impurities. I recently took occasion to send a sample of the water filtered to Prof. E. B. Stuart, chemist, etc., of this city, and it affords me pleasure to state that the said chemist reported that no traces of the coagulant, alum, used in the filtration could be found in the said filtered water. I can heartily indorse your filter.

GEORGE T. BURROUGHS,

Vice-President Phoenix Distilling Company.

"If the process is properly carried out, the *aluminum salt is all removed in the filtering*, and a remarkably pure water is obtained." *Report of Professors Austen and Wilber to Newark (N. J.) Health Board.*

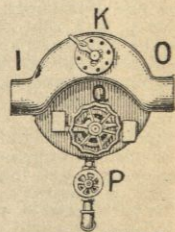
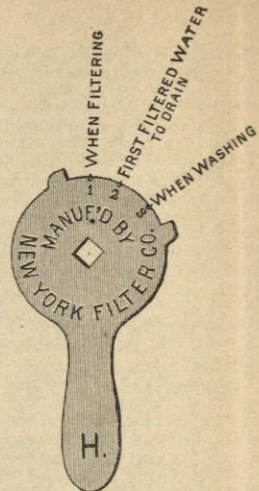
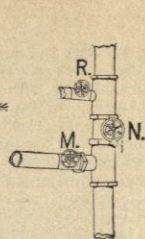
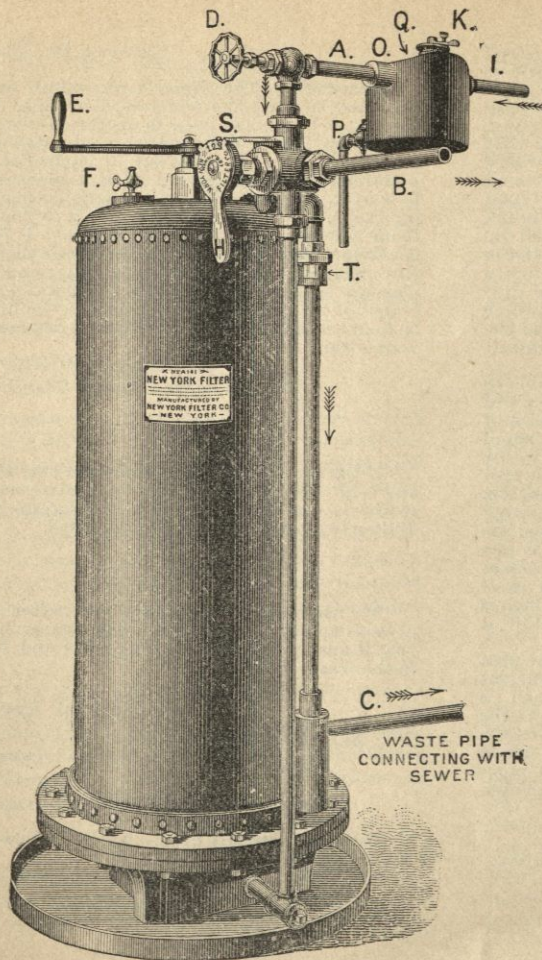
"We use alum as coagulant, and after repeated analyses find no trace whatever in the water; hence we infer that it must unite with the impurities and be carried off in the waste water."

Yours respectfully,

CHARLES E. SPENCER,

*Superintendent Norfolk and New Brunswick (N. J.)
Hosiery Company.*

"No alum remains in the water."—*Somerville (N. J.)
Water Company.*



TOP-VIEW OF
COAGULATING TANK

HOUSE FILTERS.

12 inches diameter.
16 " "
20 " "

DIRECTIONS FOR CONNECTING.

Connect the opening on the coagulating tank marked "I" and the outlet pipe from filter marked "B" to the main supply pipe, placing a valve marked "N" between the connections with the valves "R" and "M" in each branch, thus forming a by-pass.

Connect the side of tank marked "O" with the inlet pipe to filter marked "A," using the two nipples and union, which are furnished for this purpose.

Connect the waste pipe "C" with the main drain pipe, or sewer.

Put in the filtering material through the 2-inch opening at top of filter to within 16 inches of the top. The filtering material should be thoroughly washed before attempting to filter. (See Directions for Washing.)

To fill the coagulating tank, close the little lever valve "K," remove the cover "Q," and drain out the solution from the tank, which can be done by opening the waste valve "P." Then fill the tank with crystal, or lump alum, and the interstices between the lumps of alum should be filled with water, after which replace the cover, and open the little lever valve "K"—say one hole on the dial. To open this valve turn the lever in a direction opposite to that travelled by the hands of a watch.

The quantity of coagulant used can be accurately regulated by adjusting the little lever valve "K." Usually this valve should be set at one hole.

The orifices in the little lever valve "K" being small, are liable to become obstructed with coarse particles in the unfiltered water, and to keep them free, frequently before filling the alum tank the lever valve "K" should be opened wide, and then by opening the waste valve "P" a strong current of water will pass through the orifices, thus freeing them from any obstructions.

DIRECTIONS TO START THE FILTER OPERATING.

Close valve "N," open valves "R," "M" and "D," place the handle "H" of the OPERATING valve so the pointer "S" will be in the centre of line opposite figure No. 1 on the dial (see detail), which is the proper position

for filtering. The water will then enter the filter, passing down through the filtering material and out through the filtered water pipe "B" to the house service.

DIRECTIONS FOR WASHING THE FILTER.

Move the handle "H" of the operating valve so the pointer "S" will be in the centre of line opposite figure 3 on the dial, when the water is seen flowing out through the sight glass "T." The crank "E" connecting with the agitating shaft should be turned around for a few minutes, or until the water runs clear in the sight glass, or as clear as the unfiltered water. Then move the handle "H" so the pointer "S" will be in line with the figure 2 (see detail); let the water run to sewer through the sight glass "T" several minutes, or until the water shows bright. While so running, shake the crank "E" until it becomes rigid. This sudden jarring will pack the filtering material.

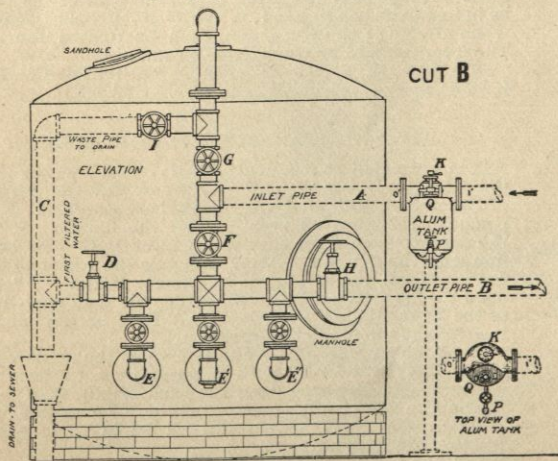
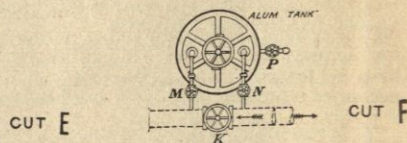
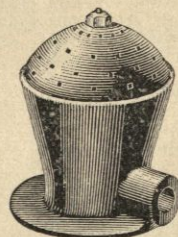
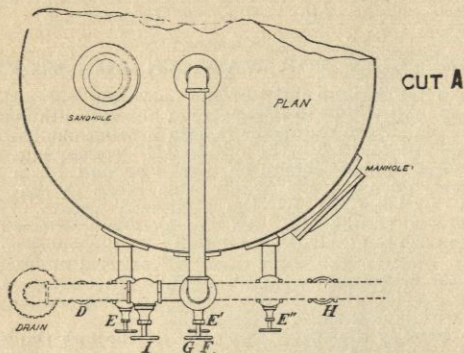
As soon as the water runs bright through the sight glass "T," move the handle "H" so the pointer "S" will be in line over the figure 1, which is its proper position when filtering; the water can then be drawn for use. The filters should be washed once each day.

DO NOT EXPECT PERFECT RESULTS IF THE CAPACITY GUARANTEED IS EXCEEDED.

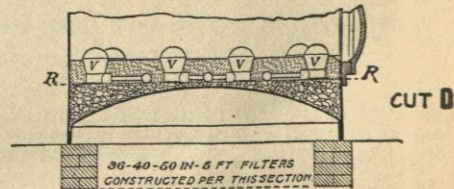
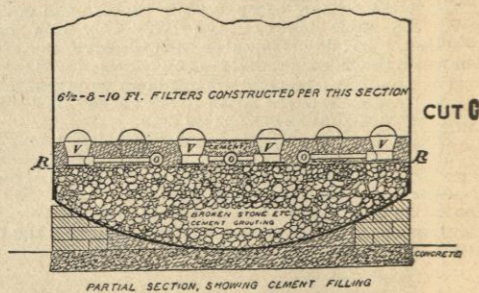
TO AERATE THE FILTER BED.

It is desirable to frequently drain out the water from the filter and allow it to fill up with air, for the purpose of sweetening and purifying the filtering material. To accomplish this desired result, move the handle "H" of the operating valve so that the pointer "S" will be in line with the figure 2. After allowing the water to flow for—say one minute, close the angle valve "D" and open the air valve "F." The water will then siphon out of the filter and air take its place. Five or ten minutes is sufficient time for this operation.

Close the air valve "F" and then open the angle valve "D." Let the filter fill with water and run to the sewer through sight glass "T" until it runs bright, then move the handle "H" so the pointer "S" will be in line with figure 1. The valves will then all be in their proper position for filtering.



WE DO NOT FURNISH PIPING OR FITTINGS SHOWN BY DOTTED LINES.



NEW YORK FILTERS.

DIRECTIONS FOR CONNECTING AND OPERATING.

1st. Attach the external piping as shown on cuts *A* and *B*.
2d. Connect the inlet pipe *A* to the main pipe, supplying the filter. Connect the outlet pipe *B* with the delivery for filtered water, arranging the necessary valves to form a by-pass so that filter can be cut out of service if ever necessary to do so.

Lead the waste-pipe *C* and the first filtered water pipe *D* into a drain or sewer, providing an open sink or funnel, so that the condition of the wash-water will show when the filtering material has been thoroughly cleansed.

Place the alum, or precipitating tank in the position shown at elevation on the cut, connecting the side of tank marked *O* with the inlet pipe to filter marked *A*.

3d. Screw the three *inside* outlet main pipes (which are drilled with $1\frac{1}{8}$ inch holes) securely into the lower flange castings *E*. Fill in the bottom of the filter with broken stone or brick, mixed with cement up to the line *R R* shown in sectional elevation cuts *C* and *D*. Place the cone valves in position and connect them with the inside main pipes, using the brass connecting tubes which will be found in the box. Then fill in the space between the cone valves and up to the top edge of the valve casting with cement mixed with sand.

4th. When the cement has set thoroughly, replace the side manhole cover (where it exists) and fill in the sand through the opening in the top of filter to within 12 inches of the top edge of the cylinder, or top row of rivets, and then put in 12 inches of coke.

While filling in the sand and coke, let just enough water run into the filter through the outlet valve *H* to settle the sand down evenly, then replace the cover on the top of filter and allow the filter to stand filled with water say two hours until the coke becomes thoroughly water-soaked after which wash the filter as follows:—

TO WASH FILTER.

Close inlet valve *G*, outlet valve *H*, valves *E'*, *E''* and *D*, opening valves *I* in waste pipe *C*, *F* and *E*. This will allow the water under pressure to pass down into one section of the outlet system, agitating and washing one-

third of the filter bed, the impurities being carried out through the waste-pipe and delivered into the drain. After washing this section for—say 3 or 4 minutes—close valve *E* and open valve *E'*, which will wash the centre section. At the end of 3 or 4 minutes close valve *E'* and open valve *E''*, which will wash the last section. At the end of 3 or 4 minutes open valves *E* and *E'*, thus reversing a current through the entire bed. This should be done for—say 2 or 3 minutes. Then close valve *F*, valve *I* in waste-pipe *C*, and open valves *G* and *D*. This will allow the first filtered water (which will never be perfectly clear and bright) to flow into the drain, and should be allowed to run for 2 or 3 minutes, or until the water becomes clear. Then close valve *D* and open the main outlet valve *H*, which will deliver filtered water for service. Always close valves on Precipitating Device when washing filter to save alum.

TO OPERATE THE ALUM OR PRECIPITATING TANK.

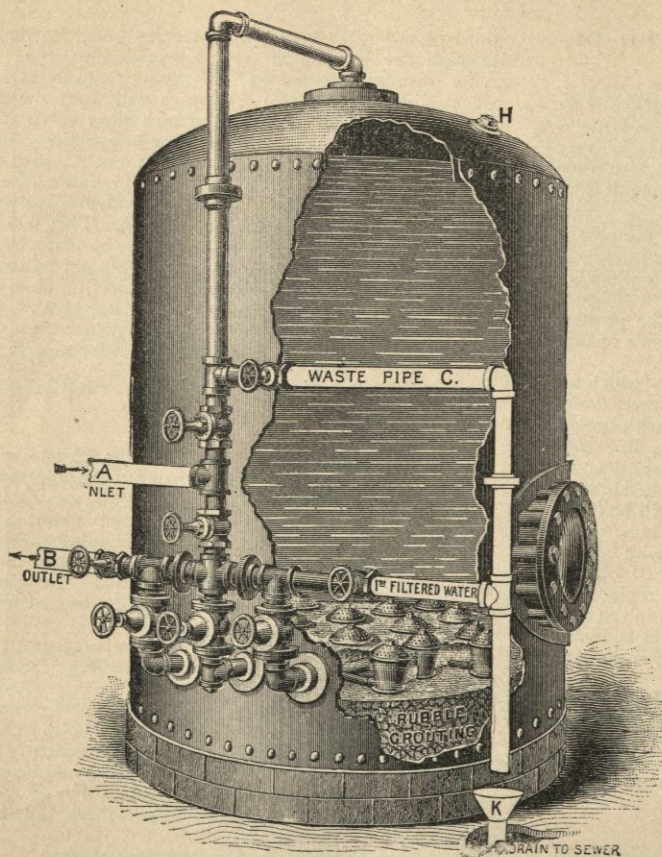
To fill the coagulating tank, close the little lever valve *K*, remove the cover *Q*, and drain out the solution from the tank, which can be done by opening the waste valve *P*. Then fill the tank with crystal, or lump alum, and the interstices between the lumps of alum should be filled with water, after which replace the cover, and open the little lever valve *K*—say one hole on the dial. To open this valve turn the lever in a direction opposite to that traveled by the hands of a watch.

The quantity of coagulant used can be accurately regulated by adjusting the little lever valve *K*. Usually this valve should be set at one hole.

The orifices in the little lever valve *K* being small, are liable to become obstructed with coarse particles in the unfiltered water, and to keep them free, frequently before filling the alum tank the lever valve *K* should be opened wide, and then by opening the waste valve *P* a strong current of water will pass through the orifices, thus freeing them from any obstructions.

Cut *F* shows top view of another style of alum tank used on large filters.

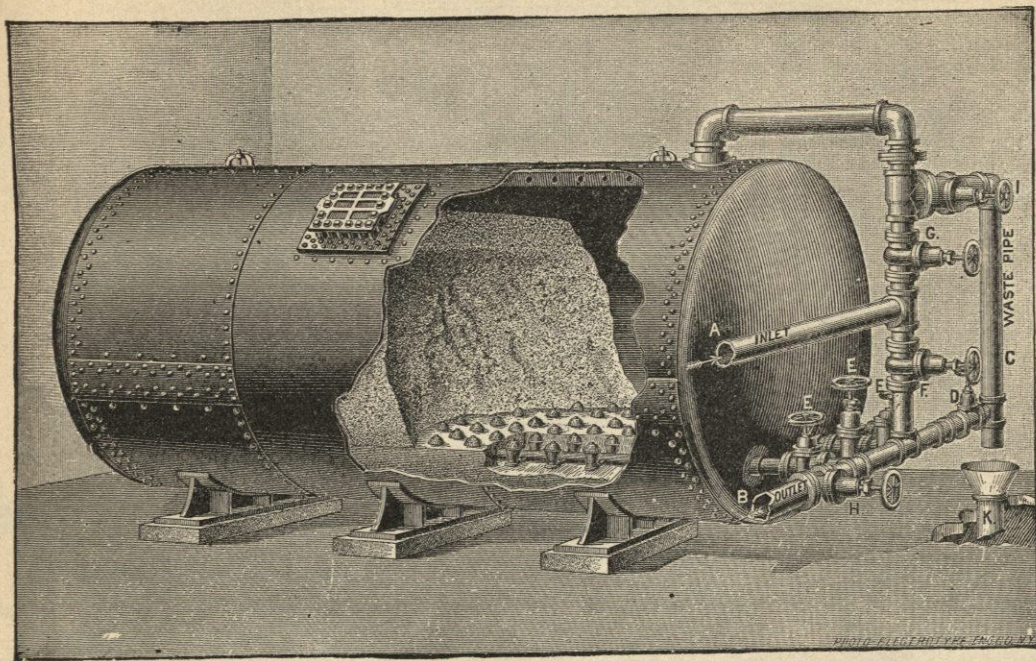
Do not expect perfect results if the capacity guaranteed for Filter is exceeded.



In the Sectional Washing Filters shown in this cut, the entire force of the reverse current used in washing is directed against one-third of the bed only, for about five minutes, then it is shut off and the central one-third of the bed is scoured in the same manner; lastly, the remaining one-third is washed.

By this system of washing the Filter Bed, a thorough attrition and scouring of particles is accomplished, as the entire supply of water and pressure is directed against the one-third of the bed being washed, and no partitions are necessary to divide the bed, as the current is forced up nearly in a straight line.

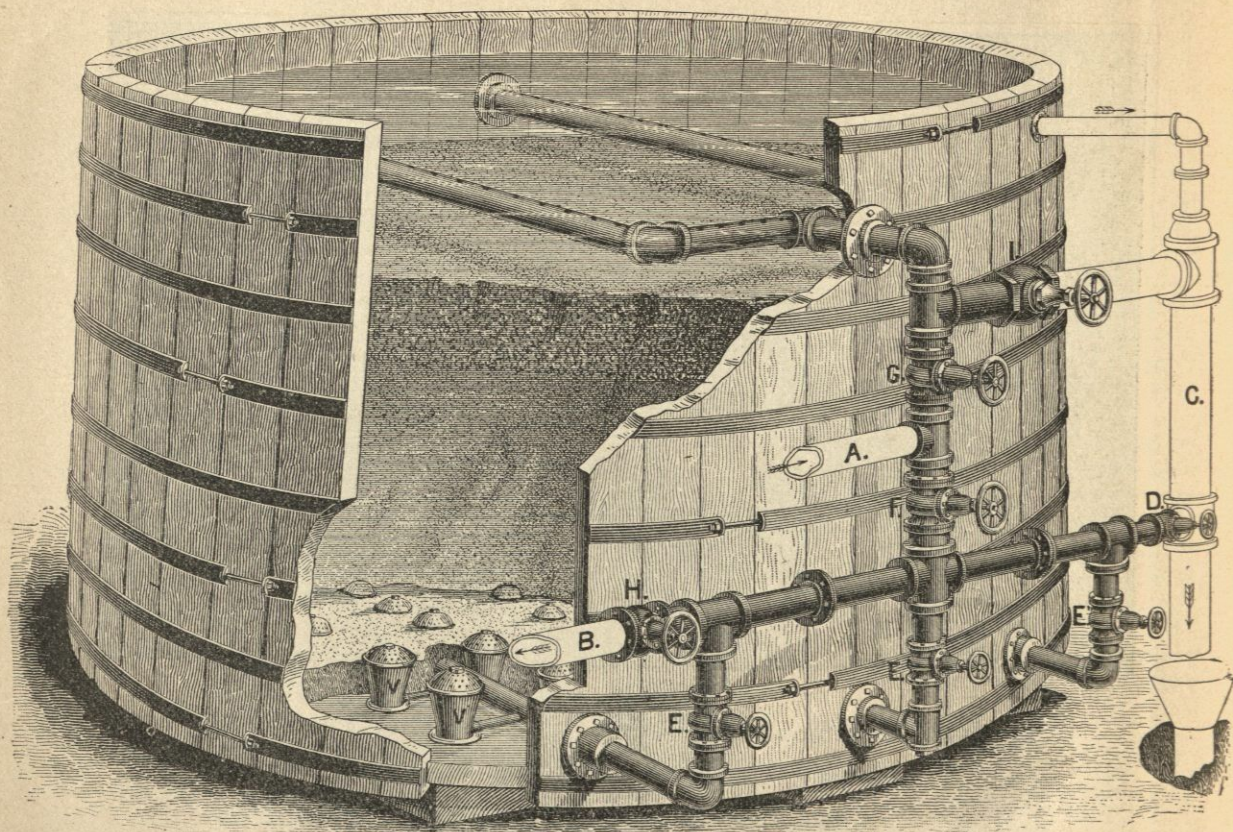
Cut of Filters from 24 inches Diameter up to 10 feet Diameter.



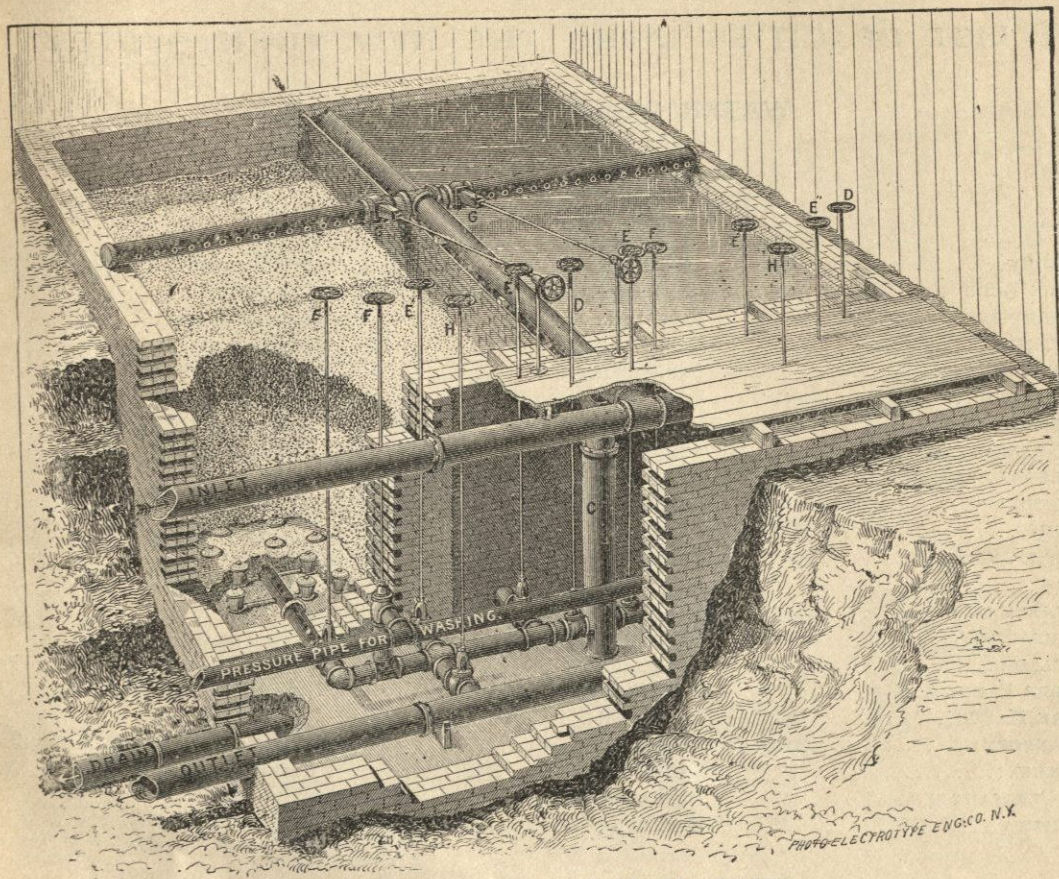
HORIZONTAL SECTIONAL WASHING FILTER.

Suitable for Large Mills and City Water Works

SIZE, 8 FEET DIAMETER BY 20 FEET LONG.



WOODEN SECTIONAL WASHING GRAVITY FILTER.



BRICK SECTIONAL WASHING GRAVITY FILTER.

LIST OF CITIES USING THE NEW YORK SYSTEM

WATER WORKS FILTER PLANTS.

GADSDEN.....	ALA.	CALDWELL.....	KAN.	BORDENTOWN.....	N. J.
LITTLE ROCK.....	ARK.	INDEPENDENCE.....	"	LAKEWOOD.....	"
PORTERVILLE.....	CAL.	PAOLA.....	"	LONG BRANCH.....	"
OAKLAND.....	"	NEW ORLEANS.....	LA.	SOMERVILLE.....	"
RIVERSIDE.....	"	SHREVEPORT.....	"	MAXWELL CITY.....	N. M.
GREENWICH.....	CONN.	BRANDON.....	MAN.	OWEGO.....	N. Y.
ATLANTA.....	GA.	WINNIPEG.....	"	RICHFIELD SPRINGS.....	"
LA GRANGE.....	"	ATHOL.....	MASS.	BUCYRUS.....	OHIO
MILLEDGEVILLE.....	"	CATONSVILLE.....	MD.	SYDNEY.....	"
BELLEVILLE.....	ILL.	MT. CLEMENS.....	MICH.	ST. THOMAS.....	ONT.
ELGIN.....	"	LAMAR.....	MO.	BEAVER FALLS.....	PA.
MURPHYSBORO.....	"	LOUISIANA.....	"	NEW BRIGHTON.....	"
CAIRO.....	"	MEXICO.....	"	TUNKHANNOCK.....	"
CARLINVILLE.....	"	RICH HILL.....	"	NEWPORT.....	R. I.
CHAMPAIGN.....	"	HOLDEN.....	"	WAKEFIELD.....	"
STREATOR.....	"	TRENTON.....	"	CHATTANOOGA.....	TENN.
ROGERS PARK.....	"	WASHINGTON.....	"	GREENVILLE.....	TEX.
TERRE HAUTE.....	IND.	ASHEVILLE.....	N. C.	LA GRANGE.....	"
DAVENPORT.....	IOWA	RALEIGH.....	"	BOGATA.....	U. S. COLUMBIA
KEOKUK.....	"	SALISBURY.....	"	STEVENS' POINT.....	WIS.
MT. PLEASANT.....	"	NEBRASKA CITY.....	NEB.		
OTTUMWA.....	"	EXETER.....	N. H.		

We have Filters now operating in all Sections of the Country, but owing to the large number, we give below a partial List of our Users in a few of the larger Cities only:

Albany, N. Y.

Eugene Duncan,
Miller & Winne,
C. D. Torrey,
Hennessey & Nolan,
Capitol Building,
Institution for the Deaf
and Dumb,
Charles Tracey,
Allan Gilmour,
John D. Parsons,
Albany Billiard Ball Co.,
The Embossing Co.,
G. H. Treadwell,
Dr. S. B. Ward,
M. V. B. Bull,
A. Van Vechten,
J. Benedict,
S. W. Whitney,
Dr. C. S. Merrill,
Miss Mary Olcott,
R. C. Pruy,
Lewis Deitz,
C. M. Hyatt,
Peter Kinnear,
A. C. Graves,
J. G. Meyers,
J. D. Parsons, Jr.,
G. W. Van Slyke,
Rathbone, Sard & Co.,
J. B. Killip,
S. L. Munson,
P. Cuddy,
F. A. Haviland,
Madison Avenue Reform
Church,
W. H. Keeler,
Ridgeway & Russ,
S. Jermain,

Bonsilate Company,
McDonaly & Sterry,
Albany Railway,
B. W. Wooster,
Benj. Lodge,
Henry Russell,
W. H. Johnson,
R. W. Tacher,
Charles Tracy,
Mrs. Daniel Manning,
C. L. Pruy,
Geo. Hysch,
John Keeler,
Joe Emmett,
J. H. King,
E. Ogden,
A. H. Sweeny,
Hon. J. H. Manning,
J. Blecker Banks,
Anthony N. Brady,
Dewey Melville,
James F. Tracy,
G. D. Stoneman,
Executive Mansion,
Chancellor Henry R. Pier-
son,
Dr. Wm. E. Millbank, (of
State Board of Health),
Dr. Lewis Balch, (Sec'y
State Board of Health),
Dr. Franklin Townsend,
James B. Jermain,
Gen. Frederick Townsend,
Hon. Matthew Hale,
Maurice Viele,
Hon. Abraham Lansing,
John G. Myers,
Delevan Peck,
G. A. Van Allen,
C. M. Bissell,
Henry Martin,

Walter F. Hurcomb,
Patrick Shevlin,
James Welch,
George Cleveland,
Miss Anna J. Conklin,
Mrs. George Evans,
Mrs. John V. L. Pruy,
Mrs. Henry D. Frazer,
John Pennie,
Seth Wheeler,
Theodore Townsend,
R. R. Osgood,
P. V. Fort,
Isaac Le Fevre,
Franklin Townsend,
John H. Mars,
T. C. Rowe,
Andrew G. White,
Wm. H. Keeler,
George W. Robinson,
Wm. J. Norwood,
P. J. Sweeney,
Young Men's Christian As-
sociation.
Old Men's Home, Troy
Road,
St. Agnes School.
Albany Rural Cemetery,
Supt's office Troy road,
Wm. A. Harder,
Horace G. Young,
Marcus T. Hun,
A. W. Fuller, Architect,
J. B. Lyon, State Printer,
Hon. John Boyd Thacher,
Albany Brewing Co.,
Fort Orange Brewing Co.,
Perry & Co.,
Chas. Van Benthuyssen &
Son,
C F. Williams Printing Co.,

A. B. Huested & Co.,
Albany Hygeia Co.,
Rufus K. Townsend,
Wm. H. Livingstone,
B. J. E. Mullen,
W. J. Reineck,
Huyck & Argersinger,
Albany Perforated Wrap.
Paper Co.,
Quinn & Nolan Ale Brew-
ing Co.,
Beaverwyck Brewing Co.,
Albany Water Works,
Albany and Greenbush
Bridge Co.,
George H. Thacher & Co.,
Lathrop Memorial,
New York State National
Bank,
N. Y. C. R. R. Shops, W.
Albany, N. Y.

Allegheny, Pa.

Chas. R. Dilworth,
H. Darlington,
W. P. DeArmett,
J. P. McKinney,
Henry Phipps, Jr.,
A. M. Byers,
Parke Painter,
H. W. Oliver,
Jas. A. Chambers,
Jacob Painter, Jr.,
W. G. Park,
Louis Neeb,
John Walker,
Chas. L. Fitzhugh,
B. F. Jones,

C. C. Jarboe,
H. P. White,
A. J. Kaercher,
T. B. Swearingner,
Mrs. D. H. Hostetter,
Dr. R. O. Sutton,
Jno. P. Ober,
Geo. S. Griscom,
Eberhardt & Ober Brew-
ing Co.,
Allegheny General Hospi-
tal,
E. A. Graff,
A. M. Marshall,
Geo. B. Hill,
James McClurg,
Wm. Miller,
Mrs. Henry Phipps,
Wm. Eberhardt,
F. H. Eggers,
Mrs. James Parke, Jr.,
Jos. Huttinger,
Dr. H. W. Hichelman,
Jas. B. Dewhurst,
W. H. Mohrman,
Thomas Brown,
Oliver Anderson,
Miss Jane B. Holmes,
Henry Buhl,
A. D. Smith,
Max Schneider,
R. G. Wood,
J. C. Bergstresser,
Jno. H. Hampton,
Mrs. D. A. Stewart,
Wm. G. McCandless,
Hotel Federal,
Keystone Laundry Co.,
Allegheny Steam Laundry
Geo. A. Chalfant,
Bauerlein Brewery,
D. T. Watson,
J. Haworth,
Chas. Pfeifer,
Jno. Morehead, Jr.,
Frank T. Morehead,
Calvin Wells,
J. Willis Dalzell,

Jno. H. Dalzell,
Louis W. Dalzell,
Mrs. Virginia A. McKee,
A. E. W. Painter,
Allegheny High School,
Alex. McClure,
Wm. Thaw, Jr.,
Hon. Felix Brunot,
W. H. Singer,
R. H. Boggs,
Pittsburgh Meat Co.,
Wm. M. Orr,
Wm. Mullens,
McBride Bros.

Brooklyn, N. Y.

Coyne & Delaney,
C. W. Hanann & Co.,
Jno. A. Bizzard,
J. J. Dunn,
J. A. Darlington,
E. W. Few,
Plant Bros.,
Creedmoor Beer Co.
T. L. Neff,
Smith & Layton,
Geo. Russell,
W. S. Ford,
Sweeney Bros.,
W. H. Sheldon,
Mrs. Crowell,
Church & Co.,
Decastro & Donner,
F. E. Taylor,
Jno. Hecht,
Edward F. Murphy,
Meyer & Brendel,
S. B. Duryea,
Eagle Building.

Cincinnati, O.

S. W. Skinner,

J. T. Whittaker, M. D.,
Lawrence Maxwell,
C. Bragg,
J. H. Ratterman,
Judge Matthews,
A. M. Warner,
W. F. Wehrman,
A. L. Kebler,
J. H. Fry,
D. B. Lyon,
E. E. Williams,
W. J. Breed,
Mrs. G. Nichols,
H. T. Proctor,
Reinhart & Newton,
Walker's Dye House,
Fred'k H. Alms,
Domestic Laundry,
Monroe Bath House,
Mabley & Carew,
J. & F. Schroths,
Hugh McCullum,
Cincinnati Chamber of
Commerce,
Robert Eckert,
Amos Shinkle,
American Steam Laundry,
Excellent Laundry,
White Star Steam Laundry
W. F. Mitchell,
William Kuhn,
Palace Steam Laundry,
Central Steam Laundry,
J. J. Cannon,
Aetna Laundry,
The A. M. Dolph Co.,
National Steam Laundry,
Union Steam Laundry,
Arctic Ice Co.,
Gilligans' Bottling Works,
S. E. Hyndman,
R. J. Ratterman, M. D.,
R. B. Bowler,
C. Oscamp,
J. W. Fisher,
B. Bettman,
Rev. Dr. Geo. Hayes,
C. A. Kebler,

H. Urban,
Frank Shuler,
H. J. Atkins,
L. C. Black,
Wm. Gibson,
Geo. Waltshire,
Eckstein White Lead
Works,
J. H. Empson,
Peebles Soda Fountain,
Chas. Grote,
The John Schillito Co.,
Cincinnati Coffin Works,
W. Cotterel,
Merrie Verhage & Co.,
Frank W. Handy,
Jos. R. Peebles,
W. A. Clark, Jr.,
Edward Sargent,
J. F. Nolan,
R. D. Barton & Co.,
M. Spickeman,
Jno. E. Schroeder,
Home Steam Laundry,
Walnut Hills Steam Laun-
dry Co.,
White Cloud Steam Laun-
dry,
Brilliant Steam Laundry,
Snow Flake Laundry,
Electric Steam Laundry,
Eureka Laundry,
Cincinnati Steam Laundry,
Walnut Hills Artificial Ice
Co.,
A. S. Butley,
Henry Moorman,
Anchor White Lead Works,
A. E. Muth,
Domestic Laundry Co.,
Gibson House,
Burnett House,
St. Nicholas Hotel,
Fay & Gruber,
H. C. Stewart,
University Club,
Wm. Ambler,
Gerke Brewery,

Chris. Moerlein Brewing Co.,
 L. Mulhauser,
 Sisters of Notre Dame,
 Hamilton County Court House,
 The Thos. Gibson Co.,
 Russell - Morgan Printing Co.,
 Gabriel Sturm,
 Nathan Stix,
 Queen City Club,
 Wm. J. Gibson,
 John Douglass & Co.,
 Crane & Breed Mfg. Co.,
 Cincinnati Steam Baking Co.,
 Teasdale Dye Works,
 The Jas. Allison Plumbing Co.,
 L. P. Lambing,
 Boughen Engineering Co.,
 Am. Toilet Supply Laundry Co.,
 Wm. Sierven,
 Wm. Heckerman,
 Dr. N. P. Dandridge,
 Cincinnati & Newport Iron & Pipe Co.,
 Laidlow & Dunn Co.,
 Central Thompson - Houston Co.,
 Matthew Addy,
 Jno. Douglass & Co.,
 Edward Colston,
 Cincinnati Family Laundry,
 Cincinnati Ice Mfg. & Cold Storage Co.,
 Carryville Artificial Ice Co.,
 Frietsch Sigmond.

Cleveland, O.

Bell, Cartwright & Co.,

T. H. Brooks,
 E. Brough,
 Brown Hoisting and Conveying Machine Co.,
 H. P. Ward,
 Wm. Chisholm,
 Wm. B. Chisholm,
 W. F. Chamberlain,
 Cleveland Rolling Mill Co.,
 Estate of Edwin Cowles,
 Geo. S. Eble,
 F. X. Escaline,
 S. L. Everett,
 Frazee's Laundry,
 J. E. French,
 W. H. Garlock,
 Chris. Hartman,
 Hollenden Hotel,
 Lake Erie Ice Co.,
 Malto Mfg. Company,
 Mrs. A. T. Osborn,
 Samuel Andrews,
 Samuel Mather,
 W. J. Morgan,
 F. Muhlhauser,
 Otis Iron and Steel Co.,
 A. A. Pope,
 Powell Tool Co.,
 Jno. F. Rust,
 Sachs, Kirkpatrick & Co.,
 Geo. Schmuck,
 Sherwin-Williams Co.,
 Union Rolling Mills,
 Voelkers Bottling Works,
 W. J. White,
 Myron C. Wick,
 Alex. E. Brown,
 Jos. L. Cartwright,
 J. Turner & Sons Manufacturing Co.,
 Fleckenstein & Emrhine,
 The Normandie Restaurant,
 Pictet Ice Works,
 Wood, Jenks & Co.,
 Everton N. Fenn,
 A. W. Johnson,
 W. R. Warner.

Harrisburg, Pa.

Pennsylvania Steel Co.,
 Harrisburg Rolling Mill Co.,
 Crystal Ice Co.,
 Rochester Bottling Works,
 Star Steam Laundry,
 A. B. Hauck & Co.,
 Grand Hotel,
 Commonwealth Hotel,
 Shirt Factory,
 James Boyd,
 John G. Boyd,
 E. E. Covert,
 Edmund Mather,
 A. J. Dull,
 James J. Dull,
 Col. W. W. Jennings,
 Thomas T. Wiernan,
 Hogentogler Bros.,
 Joshua W. Jones,
 The Governor's Mansion,
 W. H. Spooner,
 Mrs. J. C. Kunkel,
 Alfred A. Pancake,
 Daniel Bacon,
 Haulen Brothers,
 D. W. Gross & Son,
 Geo. Armpriester,
 W. J. Calder,
 W. S. Boas,
 R. C. Neal,
 S. W. Fleming,
 David Fleming, Jr.,
 Mrs. David Fleming,
 Geo. R. Fleming,
 T. G. Calder,
 B. F. Meyers,
 David Mumma,
 S. J. M. McCarrell,
 Dr. Hugh Pitcairn,
 E. C. Wallower,
 Aug. R. Shellenberger,
 Miss Anna C. Weir,
 J. W. Covert,
 Mrs. E. Dunkel,

James Monaghan,
 Maj. H. J. Sheaffer.

Newark, N. J.

Lister Agricultural Chemical Works,
 Celluloid Mfg. Co.,
 Kerr Thread Co.,
 R. McKeon,
 Thos. Linnet, Jr., & Co.,
 Henry Haussling,
 Wm. Harrigan,
 E. A. Duryee,
 W. H. Murphy,
 R. G. Solomon,
 Wm. Clark,
 Chas. Burroughs,
 S. S. Sargeant,
 Gottfried Krueger,
 P. Sanford Ross,
 Clark Mile End Spool Cotton Co.,
 West End Bottling Works,
 Jno. B. Oelkers,
 Thos. T. Kinney,
 John H. Ballantine,
 Andrew Albright,
 Dr. C. S. Stockton,
 Hon. Geo. A. Halsey,
 S. S. Battin,
 Robt. F. Ballantine,
 Hon. Fred'k S. Fish,
 W. Campbell Clark,
 J. S. Crane,
 U. S. Electric Lighting Co.,
 Carteret Chemical Co.,
 Clark Thread Co.,
 Thos. F. Crowley & Co.,
 Schenck & Chapman,
 P. Corrish,
 A. L. Bassett,
 McAndrews & Forbes,
 Blanchard Bros. & Lane,
 L. Lelong & Bro.,

S. J. Meeker,
Henry Hayes,
Wm. Clark,
Frank A. Wilkinson,
Edward Weston,
Wm. A. Richter,
S. C. Halsey,
Geo. Wilkinson,
Jerome Taylor,
C. R. Whiting,
Meyer Mercy,
Henry P. Jones,
T. P. Howell & Co.,
Newark Electric Light &
Power Co.,
N. J. Chemical & Medical
Co.,
Empire Steam Laundry,
Fay Steam Laundry,
Wm. A. Halsey,
S. Gordon,
Dr. Lott Southard,
P. Ballantine & Sons,
Krueger Hygeia Ice Co.,
Newark Consumers Hy-
geia Ice Co.,
S. James.

New Orleans, La.

Maginnis Oil & Soap
Works,
Edison Electric Illuminat-
ing Co.,
Standard Guano & Chemi-
cal Co.,
Chalmette Steam Laun-
dry,
Hon. H. C. Warmoth,
Wm. Henderson,
St. Alphonsus Church,
Charity Hospital,
U. S. Custom House,
U. S. Marine Hospital,
Boston Club,
Louisiana Brewing Co.,

La Fayette Brewing Co.,
Cotton Exchange,
J. B. Lallande,
O. A. & F. M. Ames,
N. O. Rice Milling Co.,
Leon Lamothe,
The Union Bank Restau-
rant,
Am. Sugar Refining Co.,
Rev. F. Rouge,
Cosmopolitan Hotel,
Mrs. E. D. Pritchard,
S. A. Franfont,
Jno. Fitzpatrick,
N. O. Brewing Assn,
M. Schwartz,
Independent Cotton Seed
Oil Co.,
S. Hersheim Bros. & Co.,
Southern Cotton Oil Co.,
Troy Laundry Co.,
Louisiana Sugar Refining
Co.,
Duncan F. Kenner,
Planters Sugar Refining
Co.,
St. Joseph's Orphan Asy-
lum,
Mount Carmel Asylum,
U. S. Army,
New Orleans Water Works
Co.,
Montleone Building,
Hotel Royal,
Deneschaud Hotel,
Southern Brewing Co.,
Bernard Klotz & Co.,
Frank Howard,
J. H. Maginnis,
Durant Da Ponte,
J. M. Winship,
Metropolitan Club,
J. P. Horner,
Louisiana Insane Asy-
lum,
John A. Morris, (Office
Building),
Sigmund Katz,

Jewish Widows' & Or-
phans' Home,
Maurice J. Hart,
Hotel Vonderbank,
Henry Da Ponte,
H. T. Howard,
Mrs. C. T. Howard,
W. W. Gordon,
Hotel Dieu,
Thos. G. Hardie,
The New Orleans Pica-
yune,
Simon Hernstein,
H. Abraham,
J. Picard,
George Denegre,
Isidore Newman,
Dr. H. Holmes,
James D. Houston,
Dr. W. H. Watkins,
Ernest Praszt,
T. C. Dugan,
John Henry,
R. E. Craig, Prest. N. O.
Water Co.,
H. H. Hall,
W. H. Parkerson.

Philadelphia, Pa.

Edwin F. Partridge,
Geo. V. Cresson,
John Wanamaker's Laun-
dry,
Mutual Life Insurance Co.
Building,
John L. Hill,
George S. Harding,
A. S. Giles,
Alfred S. Harrison,
Wm. M. Singerly,
M. Reed,
Jas. M. Wilson,
A. H. Lea,
J. Richmond,
Marks Bros.,

Col. A. K. McClure,
Thos. Stewart,
Wm. S. Reyburn,
H. C. Patterson,
Geo. A. Heyl,
Chris. Gallagher,
R. H. Beatty,
N. H. Rittenhouse,
J. C. Harris,
Francis Daily,
H. Gerstley,
Chas. J. Miller,
Benj. S. Janney,
Newell & Ridgway,
N. J. Griffin,
P. J. Ritter Conserve Co.,
E. Levi & Bro.,
Rosskam, Gerstley & Co.,
John Borden & Bro.,
David Gallagher,
Chris. Gallagher,
Smedley House,
Geo. C. Bolt,
Frankford Arsenal,
House of Refuge,
Hospital for Women,
Martin & Wm. H. Nixon,
Laney Bros.,
Silver Gloss Laundry,
A. & H. Myers,
Wilson & Binder,
Bergner & Engel Brewing
Co.,
Albert Kenny,
Aldine Hotel,
A. Partridge & Co.,
First University Church,
McKeon, Borie & Co.,
Chas. Lippincott & Co.,
Cunningham & Co.,
Oliver K. Reed,
H. De la Statins & Sons.,
Thos. Clements,
Jas. D. Henry,
Thos. E. Houston,
A. L. Richards,
L. & S. Sternberger,
Star & Crescent Mills Co.,

I. P. Morris Co.,
 Chas. L. Smith Mfg. Co.,
 Max Reibenack,
 Dr. Filbert,
 S. Stokley,
 E. H. Godshalk,
 Mrs. J. F. Smith,
 J. McCarty,
 R. G. Oellers,
 John N. Hill,
 Wm. Ingham,
 N. C. McPherson,
 John Bailey,
 Theo. Engel,
 Wm. Patten,
 Wm. B. Bement,
 Geo. Hay,
 Dr. T. M. Drysdale,
 Jas. Hay,
 A. J. Drexel,
 E. C. Penfield,
 W. W. Gibbs,
 Isaac Rosskam,
 C. W. Bergner,
 Theo. Bremer,
 J. Ridgway,
 The A. M. Collins Mfg. Co.,
 H. Disston,
 Geo. Goodfellow,
 E. T. McGuire,
 Athletic Club of the Schuyl-
 kill Navy,
 Wm. Pereira,
 Bolen & Byrne,
 Thompson's Spa,
 F. P. Dilley & Co.,
 F. P. Dilley,
 Harrison Bros. & Co.,
 Harrison, Frazier & Co.,
 Jno. Bromley & Sons,
 Powell & Bro.,
 Horner Bros. Carpet Co.,
 Drexel Institute,
 Toy & Bros.,
 M. & J. Metzler,
 H. G. Craven,
 Lewis G. Carr,
 Chas. N. Carr,
 Curtis P. Clayton,

Jacob Miller & Sons,
 Quaker City Dye Works,
 Standard Steel Works,
 Boerick & Tafel,
 Sol. Miller & Co.,
 C. K. Smith,
 John H. Mansfield,
 Consumers Ice Co.,
 J. J. Mullins,
 J. D. Crozer,
 Thos. English,
 McCambridge & Co.,
 Ice Mfg. Co., of German-
 town,
 Director Windrim,
 Dr. Filbert,
 H. P. Crowell,
 Glen Willow Ice Mfg. Co.,
 Phoenix Iron Co.

Pittsburg, Pa.

Henry Lloyd,
 Jas. H. Park,
 W. A. Magee,
 Allan W. Wood,
 H. Westinghouse,
 David A. Stewart,
 Harvey Childs, Jr.,
 Geo. Westinghouse,
 Leopold Vilsack,
 Simon Beymer,
 Mr. Welsh,
 Charles J. Clark,
 T. M. Carnegie,
 Jno. E. Ridal,
 C. L. Magee,
 W. L. Abbott,
 Keystone Brewing Co.,
 Sisters of Mercy Laundry,
 Carnegie, Phipps & Co.,
 Chas. Donnelly,
 Duquesne Club,
 Monongahela House,
 Ursuline Academy,
 Electric Laundry,
 Pennsylvania Lead Co.,

W. Dewees Wood,
 Solar Iron Works,
 D. W. C. Bidwell,
 D. P. Reighard,
 S. S. Holland,
 Henry Fisher,
 Dr. Edward H. Small,
 F. W. Gerdes,
 J. Z. Wainwright,
 Zoch & Blind,
 Dr. Edward H. Small,
 W. Espy,
 Mellon Bros.,
 Rev. Jas. McTighe,
 Robt. Christy,
 Geo. Rice,
 J. G. Leishman,
 Deshon's Hotel,
 Robt. Pitcairn,
 Wm. Flinn,
 John Caldwell,
 A. J. Stephenson,
 Edwd. Frauenheim,
 G. W. Simonds,
 H. C. Frick,
 Mrs. Ross Johnston,
 F. M. Magee,
 Hotel Duquesne,
 Hotel Anderson,
 Hotel Schlosser,
 Holy Ghost College,
 Iron City Laundry,
 Seventh Avenue Hotel,
 Lawrence Dilworth,
 U. S. Post Office,
 Wm. Clark,
 Iron City Brewing Co.,
 Wainwright Brewery,
 Mrs. H. L. Rook,
 J. C. Buffum & Co.,
 J. T. Denniston,
 S. Zoch,
 F. X. Woog,
 Carnegie, Phipps & Co.,
 Mrs. J. M. Gusky,
 Maj. J. T. Denniston,
 Halpin, Kennedy & Co.,
 Jas. H. Aiken,
 John Farrell,

Oliver & Roberts Wire
 Co.,
 Birmingham Steam Laun-
 dry,
 W. L. King,
 Chas. A. Humbert,
 Geo. Singer, Jr.,
 S. S. Pinkerton,
 Jas. P. Hanna,
 C. G. Hussey,
 Westinghouse Building,
 Oil Well Supply Co.,
 B. Himmebrich & Sons,
 Bailey, Farrell & Co.,
 Geo. M. Laughlin,
 Kaufman & Bro.,
 Union Ice Mfg. Co.,
 Mr. Byers,
 Rev. W. J. Holland,
 W. L. Abbott,
 Hussey Building,
 Oliver Iron & Steel Co.,
 Weyman & Bro.,
 J. F. Denniston,
 W. Dewees Wood Co.

San Francisco, Cal.

E. Martin & Co.,
 Moore, Hunt & Co.,
 Naber, Alfs & Brune,
 Hencken & Schroeder,
 Siebe Bros. & Plagemann,
 Pacific Vinegar and Pickle
 Works,
 Maison Riche,
 Shea, Bacqueraz & Co.,
 Crane, Hastings & Co.,
 Shraunce, Stanley & Co.,
 E. G. Lyons & Co.,
 N. Van Bergen & Co.,
 Lilienthal & Co.,
 Chas. Jost,
 Robt. Hamilton,
 Occidental Hotel,
 Bohemian Club,
 Pioneer Soda Water Wks.,

Geo. Lang & Co.,
 Kohler & Van Bergen,
 Dallemand & Co.,
 Seroufe & McCrum,
 Hilderbrand, Posner &
 Co.,
 Carroll & Carroll,
 J. S. Bowman & Co.,
 Alfred Greenebaum & Co.,
 Loewe Brothers,
 F. Chevalier & Co.,
 Bay City Soda Water
 Works,
 Standard Soda Water
 Works,
 Weil Bros. & Sons,
 Cartan, McCarthy & Co.,
 Brunner & Schaller,
 Braunschweiger & Co.,
 A. P. Hotaling & Co.,
 Moxie Soda Co.,
 Louis Taussig & Co.,
 Wilmerding & Co.,
 Livingstone & Co.,
 J. T. M. Kelly & Co.,
 E. A. Fargo & Co.,
 Thos. Taylor & Co.,
 A. Fenhkhausen & Co.,
 Lyman C. Parke,
 Chas. Bradley,
 The Wilson Dining Saloon,
 J. W. Jim Steam Laundry,
 Pacific Union Club,
 Walters Bros.,
 M. Warde & Co.,
 Wickman & Lutgen,
 E. Commins & Co.,
 Heathcote, Dexter & Co.,
 M. Walter & Co.,
 N. Grange & Co.,
 Wm. Hoelscher & Co.,
 Hey, Grauerholz & Co.,
 Roth & Co.,
 Taniere, Betzel & Co.,
 National Brewing Co.,
 Pacific Soda Water Wks.,
 San Francisco Soda Water
 Works,
 Bliven & Lewis,

A. P. Brayton,
 Edison Light & Power
 Co.,
 Crystal Soda Water Wks.,
 Wm. A. Schultz,
 Pierre G. Sompas.

St. Louis, Mo.

Western Steel Co.,
 Rio Chemical Co.,
 Mound City Paint and Col-
 or Works,
 Pond Engineering Co.,
 St. Louis Lead and Oil Co.,
 Casey H. Leeson,
 G. M. Munger & Co.,
 J. K. Bretelle,
 U. S. Marine Laundry,
 Missouri Steam Laundry,
 Standard Laundry,
 St. Louis Sugar Refining
 Co.,
 Mo. Pacific Railway Hos-
 pital,
 Beer's Hotel,
 St. Louis Club,
 Sprague's Hotel,
 G. Cramer's Dry Plate Co.,
 Western Distilling Co.,
 Anheuser-Busch Brewing
 Association,
 John W. Kaufman,
 Frank Carter,
 Jno. R. Lionberger,
 D. G. Evans,
 C. C. Moffitt,
 C. D. McClure,
 Belcher Sugar Refinery,
 Collar & Cuff Laundry,
 Bradley Printer & Roll
 Paper Co.,
 Kauffman Milling Co.,
 West India Mfg Co.,
 Crystal Plate Glass Co.,
 Herf & Frerich's Chemical
 Co.,

Southern White Lead and
 Oil Co.,
 Peerless Laundry,
 Pacific Laundry,
 Wagner Car Co. Laundry,
 City Laundry,
 Casey & Leeson,
 Swarts' Laundry,
 Merchants' Exchange,
 Turner Building,
 Southern Hotel,
 Lincoln Flats,
 Hurst's Hotel,
 Consumers' Ice Co.,
 Wainwright Brewing Co.,
 J. C. Finck & Co.,
 Sprague & Son,
 Thos. Clark,
 Adolphus Busch,
 Jno. D. Davis,
 Thos. Howard,
 Ellis Wainwright,
 W. R. Allen,
 Commercial Building,
 A. F. Godefroy,
 Thos. Reyburn,
 Mrs. A. S. Morrison,
 W. B. Hood,
 St. Louis Exposition and
 Music Hall Association,
 Morse Wool Scouring Co.,
 Jos. Schneider Brewing
 Co.,
 Klausmann Brewing Co.,
 W. J. Lemp,
 American Steam Laundry,
 H. J. Schendel,
 Peterson's Laundry,
 Hammer-Alhaus Dry
 Plate Mfg Co.,
 N. O. Nelson Mfg Co.,
 Henry Ackerman,
 St. Louis Machine Supply
 Co.,
 A. Booth Packing Co.,
 A. A. Seed Dry Plate
 Co.,
 St. Louis Brewing Associa-
 tion,

Griesedeck Brewing Co.,
 R. N. Emerson Laundry,
 Western Brass Mfg Co.,
 Mark Leavenworth,
 Merchants' Laundry Co.,
 Thos. H. West,
 Tin Foil and Metal Co.,
 Spannagel Soda Factory,

Washington, D. C.

T. V. Noonan,
 Sam'l A. Robinson,
 Champion Laundry,
 J. B. Cralle,
 Yale Steam Laundry,
 J. L. Norris,
 Genl. Henry Strong,
 F. M. Colwell,
 "The Cochran,"
 Henry Murray,
 Washington Loan & Trust
 Co.,
 Devereaux & Goghon,
 M. W. Galt,
 Jos. R. Quinter,
 Hon. Hugh McCullough,
 Senator McMillan,
 Col. J. N. Bonaparte,
 S. H. Kaufman,
 I. Queiros,
 Ward & Cunningham,
 Columbia Athletic Club,
 Washington Barracks,
 Estate Hon. Geo. Hearst,
 Dr. J. B. Hamilton,
 Henry Wagner,
 Swiss Steam Laundry,
 F. B. Killian,
 Washington Market Co.,
 Jno. N. Bovee,
 Smith Transparent Ice Co.,
 The Arlington,
 Hotel Arno,
 The Shoreham,
 S. S. Shedd & Bro.,
 Emmert & Heisley,
 Henry McShane Mfg. Co.

Partial List of Users of New York Filters, Arranged by Trades.

BOTTLERS.

CALIFORNIA.

Roll, Kennison & Co.....Auburn
Thomas Strohn.....Los Angeles
Pioneer Soda Water Works, San Francisco
Williams Bros.....San Jose

CONNECTICUT.

D. L. Yarrington.....Bridgeport
Gilhuly & Bohen.....New Haven

COLORADO.

Standard Bottling Co.....Denver
Silver State Bottling Co....."
Standard Bottling Co.....Trinidad
H. Vossbeck & Co....."

DISTRICT OF COLUMBIA.

I. Queiros.....Washington

GEORGIA.

Southern Bottling Co.....Atlanta
E. Sheehan.....Augusta
John H. Cavanaugh.....Savannah

BOTTLERS—(Continued).

ILLINOIS.

Andrew Lohr Bottling Co.....Cairo
Chicago Fountain Soda Water Co.....Chicago
Victor Barothy....."
Chicago Consolidated Bottling Co....."
Chas. Westerholm....."

INDIANA.

Enyart & Chambers.....Logansport

IOWA.

Carroll Bottling Works.....Carroll
C. Magnus.....Cedar Rapids
Mineral Springs Bottling Co.....Humboldt
L. M. Finkelstein.....Oskaloosa

KENTUCKY.

A. M. Laevison.....Paducah

(BOTTLERS—Continued).

LOUISIANA.

Henry Wilbert.....Plaquemine

MANITOBA.

Blackwood Bros.....Winnipeg

MASSACHUSETTS.

W. O. Tuttle & Co.....Boston
Otis S. Neale....."
E. P. Francis.....Fall River
F. R. Smithers & Co....."
C. S. Keith.....Fitchburg
Chas. Brueck.....Holyoke
Jas. McEvoy.....Lawrence
Hills & Blaisdell.....Lowell
Sylvanus Bartlett....."

MICHIGAN.

Root, Willston & Co.....Bay City
J. G. Schemm.....Saginaw

MINNESOTA.

St. Paul Bottling Co.....St. Paul
Spa Bottling Co....."

BOTTTLERS—(Continued).

MONTANA.

Missoula Mercantile Co. Missoula
Garden City Bottling Co. "

MISSOURI.

Nicholas Zeutner Joplin
Henry Ackerman St. Louis
St. Louis Magnetic Mineral
Water Co. "

NEBRASKA.

Geo. Segelke Beatrice
H. W. Snyder Omaha
Omaha Bottling Works "
Coggins & McNally "
Pomy & Segelke "
Ed. O'Brien "
R. Hartz South Omaha

NEW HAMPSHIRE.

Londonderry Lithia Spring
Water Co Nashua

NEW JERSEY.

D. Bowden Boonton
Motel & Co. Hoboken
John W. Gerlach "
Louis Sternberger Jersey City
McNamee & McHugh "
S. Simon "
S. James "
S. Nathanson Long Branch
Henry Haussling Newark
P. Corrish "
Wm. Harrigan "
West End Bottling Works "
David Boyle Paterson
P. Pfannabecker "
W. T. Allen "
R. Swinley & Co "
Carl Kaerth Plainfield
M. Danner Rahway
List & Mink Trenton

BOTTTLERS—(Continued).

NEW YORK.

P. Cudry Albany
Hennessey & Nolan "
F. A. Haviland "
Excelsior Bottling Co. Bayport, L. I.
E. W. Few Brooklyn
H. L. Plaut "
Creedmoor Beer Co. "
T. L. Neff "
Smith & Layton "
Geo. Russell "
W. S. Ford "
Sweeney Bros "
Coyne & Delaney "
C. W. Hamann & Co "
John Blizzard "
John Hecht "
Edward F. Murphy "
John A. Darlington "
John J. Dunn "
Meyer & Brendel "
Smith & Layton "
Sweeney Bros "
E. Gernon Cohoes
Mrs. J. K. Oakley Newburgh
Geo. Grau New York City
Ed Springmeyer & Co. "
Ludorf & Nacke "
Byrne Bros "
Frank Haas "
Geo. Philippi, Jr. "
Sternberg & Son "
P. Sullivan "
Mrs. B. Parrish "
S. A. Ludin "
Thomas Clarkin "
S. Bernstein "
Herman Talk "
Wittman Bros "
Marsus "
J. Kowarsky "
Henry G. Jones "
D. L. Ormsby, High Bridge "
H. Zubiller's Sons "
Fred Van Dohlen "
Charles Adams "
Wm. Feltman "
Empire Bottling Co. "
A. C. Schuyler "
Henry Freymuth (U. S.
Bottling Co. "
A. Liebler Bottling Co. "
L. Hilton "
Jas. Clarkin "

BOTTTLERS—NEW YORK (Continued)

Stolmaker & Miller New York City
Peter E. Donnellon "
J. S. Harris "
H. Knoblock & Bro. "
Louis Samilson "
Rochester Bottling Co. Rochester
Avery N. Lord Utica
D. H. Smith Yonkers

NORTH CAROLINA.

C. H. Campbell Asheville
A. Valer & Co. Charlotte

OHIO.

William Heckerman Cincinnati
A. C. Gilligan's Bottling
Works "
Sachs, Kirkpatrick & Co. Cleveland
Geo. S. Eble "
E. Brough "
Geo. Schmuuck "
F. Escaline "
Fleckenstein & Enrhine "
Louis Schnuerer Elyria
Kalty Bros Galion
J. R. Richardson Mansfield
C. Zuber Steubenville
T. H. Kelley & Co. "
Phillip Schmidt Toledo

PENNSYLVANIA.

Bedford Mineral Springs Co. Bedford
E. J. Layton Blairsville
D. Fred Robinson Brownsville
W. H. Calvert Charleroi, Pa.
R. P. Cochran Greensburg
Daniel Bacon Harrisburg
Rochester Bottling Works "
Mineral Springs Bottling Co. Humboldt
Samuel A. Leiby New Castle
W. A. Mayne "
Chas. W. Smith Newport, Pa.
Peter Stubler Oil City
Chas. Lippincott & Co. Philadelphia
Laney Bros "
Cunningham & Co. "
Theodore Geiselhart Pittsburgh
A. W. Schrader Scranton
J. S. Kissinger Sharon
E. J. Robinson "

BOTTLEERS—(Continued).

RHODE ISLAND.

Gurney & Hines.....Pawtucket
Thompson & Young.....Providence

SOUTH DAKOTA.

Queen City Bottling Works...Sioux Falls

TENNESSEE.

J. W. Waynick.....Bristol
Ernest Reyber.....Chattanooga
Chas. J. Kebar.....Columbia

TEXAS.

G. M. Loomer.....Beaumont
Manufacturing & Bottling Co..Corsicana
Dallas Bottling Co.....Dallas
Pittsburgh Bottling Works....Pittsburgh

UTAH.

H. Denhalter & Sons.....Salt Lake City

VIRGINIA.

Joseph Solomonsky.....Norfolk
Norfolk Bottling Co....."

WASHINGTON.

Yuncker Bottling Co.....Tacoma
A. S. C. Forbes....."

WEST VIRGINIA.

McDowell & Harlan.....Clarksburg
M. W. Kain.....Parkersburg
E. O. Heile....."

BOTTLEERS—(Continued).

WISCONSIN.

Weiden & Larkin.....West Superior

CANADA.

Chas. Gurd & Co.....Montreal
Oliver Hezzelwood.....Oshawa, Ont.

HAWAIIAN ISLANDS.

Hollister & Co.....Honolulu

NOVA SCOTIA.

John Roue.....Halifax

BREWERS, DISTILLERS, ETC.

CALIFORNIA.

Rothenberg & Co.....Oakland
Hall, Luhrs & Co.....Sacramento
Geo. W. Chesley....."
Wilmerding & Co.....San Francisco
Louis Taussig & Co....."
Shea, Bocquerez & Co....."
Crane, Hastings & Co....."
Livingstone & Co....."
E. A. Fargo & Co....."
N. Van Bergen & Co....."
Thomas Taylor & Co....."
A. Fenkhausen & Co....."
Shraunce, Stanley & Co....."
J. T. M. Kelly & Co....."
E. G. Lyons & Co....."
Naber, Alfs & Bruen....."
Brunner & Schaller....."
Hencken & Schroeder....."
Braunschweiger & Co....."
Siebe Bros. & Plagemann..

BREWERS—(Continued).

A. P. Hotalling & Co.....San Francisco
E. Martin & Co....."
Moore, Hunt & Co....."
Carten, McCarthy & Co....."
Wm. A. Schultz....."
Walters Bros....."
Geo. Lang & Co....."
M. Warde & Co....."
Kohler & Van Bergen....."
Wickman & Lutgen....."
Dallemand & Co....."
E. Commins & Co....."
Sroufe & McCrum....."
Heathcote, Dexter & Co....."
Hilderbrand, Posner & Co....."
M. Walter & Co....."
Carroll & Carroll....."
N. Grange & Co....."
J. S. Bowman & Co....."
Wm. Hoelscher & Co....."
Pierre G. Soms....."
Hey, Grauerholz & Co....."
Alfred Greenebaum & Co....."
Roth & Co....."
Loewe Bros....."
Taniere, Betzel & Co....."
National Brewing Co....."
F. Chevalier & Co....."

COLORADO.

Phillip Zang Brewing Co.....Denver

CONNECTICUT.

The Connecticut Breweries Co...Meriden

GEORGIA.

Chattahoochee Brewing Co....Columbus

ILLINOIS.

Western Brewing Co.....Belleville
Phoenix Brewing Co.....Chicago
Dallemand & Co....."
Northwestern Brewing Co....."
Heim Brewery.....East St. Louis

BREWERS—(Continued).

KENTUCKY.

New England Distilling Co. Covington
W. H. Smith Distilling Co. " "
W. A. Gaines & Co. Frankfort
Allen-Bradley Co. Louisville
Frank Fehr Brewing Co. " "
Thompson, Wilson & Co. Paducah

LOUISIANA.

Louisiana Brewing Co. New Orleans
Southern Brewing Co. " "
Pelican Brewing Co. " "
Lafayette Brewing Co. " "
Leon Lamothe. " "
New Orleans Brewing Ass'n. " "

MICHIGAN.

National Brewery. East Saginaw

MISSOURI.

Chapin & Gore. Kansas City
Wainwright Brewing Co. St. Louis
Anheuser-Busch Brewing Association. " "
Western Distilling Co. " "
Klausmann's Brewery. " "
W. J. Lemp. " "
Jos. Schnaider's Brewery. " "
St. Louis Brewing Ass'n. " "
Griesedick Brewing Co. " "

NEW JERSEY.

Somerset Distilling Co. East Millstone
D. Osborn & Co. Newark
Froelich & Koehler. " "
P. Ballantine & Sons. " "
Paterson Consolidated Brewing Co. Paterson

NEW YORK.

Chas. Tracey. Albany
C. D. Torrey. " "
A. C. & George F. Weber. " "

BREWERS—NEW YORK (Continued).

B. J. E. Mullen. Albany
W. J. Reineck. " "
E. N. Cook & Co. Buffalo
George Rochevot. " "
Gerhard Lang. " "
Jacob Ruppert. New York City
Bartholomay Brewing Co. Rochester
Miller Brewing Co. " "
S. R. Ryan. Watertown
T. E. Shaughnessy. West Troy

OHIO.

Chris Moerlein Brew'g Co. Cincinnati
Gerke Brewery. " "
Brilliant City Brewing Co. Findlay

OREGON.

North Pacific Brewery. Astoria

PENNSYLVANIA.

Eberhard & Ober Brew'g Co. Allegheny City
C. Bauerlin Brewing Co. Bennett
Haulin Bros. Harrisburg
David Gallagher. Philadelphia
Rosskam, Gerstley & Co. " "
J. J. Mullins. " "
Chris. Gallagher. " "
F. P. Dilley & Co. " "
Albert Kenny. " "
Newell & Ridgway. " "
Burgner & Engel Brew'g Co. " "
Keystone Brewing Co. Pittsburgh
Iron City Brewing Co. " "
Z. Wainwright & Co. " "
Theo. R. Helb. York

WEST VIRGINIA.

P. Welty & Co. Wheeling
Schmulbach Brewing Co. " "

WISCONSIN.

National Distilling Co. Milwaukee

BREWERS—(Continued).

WASHINGTON.

Albert Brown Brewing Association. Seattle

CANADA.

Dawas & Co. Lachine, P. Q.
Meagher Bros. Montreal
Montreal Brewing Co. " "
Boswell Bros. Quebec

ICE MANUFACTURERS.

(ALSO SEE LIST OF BREWERS.)

CALIFORNIA.

Los Angeles Ice & Cold Storage Co. Los Angeles

CONNECTICUT.

Griffin & McElroy. Bridgeport

DELAWARE.

The Lea Pusey Co. Wilmington

DISTRICT OF COLUMBIA.

Smith Transparent Ice Co. Washington

FLORIDA.

De Land Ice Mfg Co. De Land
Lake Region Ice and Refrigerating Co. Eustis
Central City Ice Co. Gainesville
Arctic Ice Co. Jacksonville

ICE MFRS—FLORIDA (Continued).

Orlando Ice Mfg Co Orlando
 Palatka Ice Factory Palatka
 Sanford Ice Co. Sanford
 Tampa Ice Co. Tampa

GEORGIA.

Polar Ice Co. Augusta
 Brunswick Brew'g & Ice Co. Brunswick
 Planters' Oil, Guano & Ice
 Co. Macon

ILLINOIS.

Distilled Water Ice Mfg Co. Cairo

INDIANA.

Home Ice Co. Evansville

KENTUCKY.

E. W. Bewley Bowling Green
 Champaign Ice Co. Covington
 Graves County Water &
 Light Co. Mayfield
 Paducah Ice Co. Paducah
 Somerset Ice Co. Somerset

MASSACHUSETTS.

Thomas White & Co Brockton

MISSOURI.

Consumers' Ice Co. St. Louis
 Griesedieck Artificial Ice
 Co. "
 M. A. Seed Dry Plate Co. "
 Carondelet Electric Light
 & Power Co. "

NORTH CAROLINA.

Mecklenberg Ice Co. Charlotte

ICE MANUFACTURERS—(Continued).

NEW JERSEY.

Knickerbocker Ice Co. Atlantic City
 Kregers Hygiene Ice Co. Newark

NEW YORK.

Iroquois Hotel. Buffalo
 Wm. Ottman & Co. New York City
 New York Hygeia Ice Co. "
 New York Steam Co. "
 A. & M. Robbins. "
 De La Vergne Refrigerat-
 ing Machine Co. "

OHIO.

Arctic Ice Co. Cincinnati
 Walnut Hills Artificial Ice
 Co. "
 Coryville Artificial Ice Co. "
 Cincinnati Ice Mfg & Cold
 Storage Co. "
 Pictet Ice Works. Cleveland

OREGON.

Portland Ice Works. Portland

PENNSYLVANIA.

The Hendrick Mfg Co. Carbondale
 Ice Mfg Co. of Germantown. Germantown
 Chas. H. Suppes. Johnstown
 Philadelphia Warehouse &
 Cold Storage Co. Philadelphia
 Quaker City Cold Storage
 & Warehouse Co. "
 Glen Willow Ice Mfg Co. "
 Union Ice Mfg Co. Pittsburgh
 York Mfg Co. York

SOUTH CAROLINA.

Charleston Ice Machine Co. Charleston

ICE MANUFACTURERS (Continued).

TENNESSEE.

Bohlen-Huse Machine and
 Lake Ice Co. Memphis

TEXAS.

Crystal Ice & Mfg Co. San Antonio
 Sherman Ice Co. Sherman

VIRGINIA.

G. W. Spooner. Charlottesville
 Linde, Smith & Co. Danville
 Transparent Ice Co. "
 Lexington Ice Works. Lexington
 Petersburg Crystal Ice Co. Petersburg
 Transparent Ice Co. Richmond
 Crystal Ice Co. "
 Diamond Ice Co. Roanoke

WASHINGTON.

Union Ice Co. Tacoma

CUBA.

Benitez, Sobrino & Co. Havana
 Nueva Fabrica de Hielo. "

WEST INDIES.

A. S. Plews. Barbadoes

LAUNDRIES.

ALABAMA.

The A. M. Dolph Co. Birmingham
 George A. Blinn & Co. "
 Empire Laundry Co. Birmingham
 Millar Brothers. Sheffield

LAUNDRIES—(Continued).

CONNECTICUT.

Hutchinson, Pierce & Co.....Bridgeport
E. G. Godfrey.....Danbury

DISTRICT OF COLUMBIA.

S. C. Wallach.....Washington
F. M. Colwell....."
Yale Steam Laundry....."
Henry Wagner....."
West End Steam Laundry....."
Swiss Steam Laundry....."
F. B. Killian....."
Alpha Steam Laundry....."

GEORGIA.

Maurice Jankower.....Athens
White & Beck.....Atlanta
Augusta Steam Laundry.....Augusta
Gilbert Steam Laundry.....
Acme Steam Laundry Co.....Columbus
S. Guthman.....Macon

ILLINOIS.

Empire Laundry Co.....Chicago
Acme Laundry....."
Empire Laundry Mach'y Co....."
Troy L'ndry Mach'y Co., Ltd....."
William Preston.....Jackson
Dunnuck & Wendling.....Springfield
Griffith & Heritage.....Streator
M. K. Weems & Co.....Quincy

INDIANA.

W. H. Merithew.....Evansville
F. L. Jones & Co.....Fort Wayne
Walter Illingworth.....Logansport
Campbell Bros....."
Orrin Marshall.....Madison
A. C. Lenaire....."

IOWA.

J. A. Van Alstine.....Cedar Rapids
Allen & Parsons.....Keokuk
H. S. Bittner.....Ottumwa
Russell & Higdon....."

LAUNDRIES—(Continued)

KANSAS.

A. B. Conser.....Atchison
E. M. McCaskell....."
C. C. McMath.....Fort Scott
F. A. Ripley.....Topeka

KENTUCKY.

Gridley & Clark.....Bowling Green
Emil Schlamp.....Henderson
Durnette & Ohlman.....Louisville
Star Laundry Co....."
T. S. Bottomly....."
D. R. Morris & Co....."
New York Laundry....."
John J. Cannon.....Maysville
City Steam Laundry.....Middlesborough
C. J. Hager.....Owensboro

LOUISIANA.

Troy Laundry Co.....New Orleans
Chalmette Steam L'ndry....."
Shreveport St'm L'ndry..Shreveport

MARYLAND.

Patapsco Laundry Co.....Baltimore
Chesapeake Shirt Co....."

MASSACHUSETTS.

C. A. Royce.....Springfield

MICHIGAN.

Meakins Laundry.....East Saginaw
The A. M. Dolph Co.....Flint
Otte Bros.....Grand Rapids

MINNESOTA.

William Lawrence.....Minneapolis
J. R. Purchase....."
Standard Laundry....."
Simpson & Henderson....."
Hennepin Steam L'ndry....."
Fuller's Steam Laundry....."
Thomas & Adams.....St. Paul

LAUNDRIES—(Continued).

MISSOURI.

Columbia Steam Laundry.....Columbia
J. B. Price.....Jefferson City
Cook Brothers....."
George M. Munger & Co.....Kansas City
Charles A. Hunt....."
Wolf Bros. Laundry Co....."
Troy Laundry....."
M. J. Fulkerson....."
Gate City Laundry Co....."
Bowman & Son.....Sedalia
Empire Steam Laundry....."
S. Zimmerman & Son....."
Merchants Laundry Co.....St. Louis
Peerless Laundry....."
G. M. Munger & Co....."
Pacific Laundry....."
J. R. Bretelle (Mo. Steam Laundry....."
Wagner Car Co. Laundry....."
U. S. Marine Laundry....."
Collar and Cuff Laundry....."
City Laundry....."
Missouri Steam Laundry....."
Cassey & Leeson....."
Standard Laundry....."
Swart's Laundry....."
Model Steam Laundry....."
L. & A. Lathrop....."
R. N. Emerson....."
American Steam Laundry....."
H. J. Schendel....."
Peterson's Laundry....."

MISSISSIPPI.

W. J. Lohman.....Vicksburg

MONTANA.

Johnson & Jensen.....Great Falls

NEBRASKA.

Poor & Henry.....Omaha
City Steam Laundry....."
Gate City Laundry....."

LAUNDRIES—(Continued).

NEW JERSEY.

Manhattan Laundry Co. Jersey City
 Fay Steam Laundry Newark
 Schenck & Chapman " "
 Thos. Linnet, Jr., & Co. " "
 Empire Steam Laundry " "
 Thomas F. Crowley & Co. " "
 R. McEwen " "
 Passaic Steam Laundry Co. Passaic

NEW YORK.

Eugene Duncan Albany
 J. B. Killop " "
 Miller & Winne " "
 S. L. Munson " "
 Binghamton St'm Laundry Binghamton
 Home for the Aged Brooklyn
 Mercantile Laundry Construction Co. " "
 Cook, James & Co. Lockport
 Little Sisters of the Poor New York City
 C. M. Fisher " "
 The O'Thayne New Shirt Laundry " "
 Troy Laundry Mach'ry Co. " "
 H. Wallach's Sons " "
 Mrs. F. Hopkins Troy
 Stone, Blair & Co. " "
 J. W. & W. L. Gardner " "
 E. F. Rogers " "
 Wiles Laundering Co. " "
 Beiermeister & Price " "
 Wales & Price " "
 Tim & Co. " "
 Adams Laundry Machinery Co. " "
 Troy Laundry Machinery Co. Ltd. " "
 Geo. W. Witter Waverly

NORTH CAROLINA.

John M. Dick Greensboro

OHIO.

Bellaire Steam Laundry Bellaire
 Domestic Laundry Cincinnati
 Cincin. Family Laundry Co. "

LAUNDRIES—OHIO (Continued).

American Toilet Supply Cincinnati
 Laundry Co. Cincinnati
 W. A. Clark, Jr. " "
 American Steam Laundry " "
 D. R. Barton & Co. " "
 Excellent Laundry " "
 M. Spickerman " "
 White Star Steam Laundry " "
 John E. Schroeder " "
 W. F. Mitchell " "
 Home Steam Laundry " "
 William Kuhn " "
 Walnut Hills St'm Laundry Co. " "
 Palace Steam Laundry " "
 White Cloud St'm Laundry " "
 Central Steam Laundry " "
 Brilliant Steam Laundry " "
 J. J. Cannon " "
 Snowflake Laundry " "
 Aetna Laundry " "
 Electric Steam Laundry " "
 The A. M. Dolph Co. " "
 Eureka Laundry " "
 National Steam Laundry " "
 Domestic Laundry Co. " "
 Cincinnati Steam Laundry " "
 Union Steam Laundry " "
 Lion Laundry Co. Cleveland
 W. F. Chamberlain " "
 Columbus Steam Laundry Columbus
 W. M. Armstrong & Co. " "
 Excelsior Steam Laundry " "
 L. B. Kohnle & Co. " "
 Gem Shirt Factory Dayton
 W. B. Ely Findlay
 Empire Laundry Mach'ry Co. Ironton
 Harper Bros. Marietta
 American Steam Laundry Martin's Ferry
 J. R. Wilson Norwalk
 Kugel Bros. Piqua
 J. E. Welber Steubenville
 E. N. Geary " "
 R. H. Mahon Tiffin
 Tiffin Steam Laundry Toledo
 J. M'Gongale " "
 E. J. Cannon Zanesville
 Waters & Hazlett " "
 Chas. W. Bruhl " "
 Waters & Taylor " "

OREGON.

Col. J. Olmsted Salem

LAUNDRIES—(Continued).

PENNSYLVANIA.

Chas. Pfeifer Allegheny City
 Keystone Laundry Co. " "
 L. P. Sterne & Co. " "
 H. H. Otto Altoona
 Columbia Shirt Mfg Co. Columbia
 Jos. K. Robinson Greensburg
 George Hook Germantown
 A. B. Hauck & Co. Harrisburg
 Star Steam Laundry " "
 Hogentogler Bros. " "
 Thomas Clements Philadelphia
 Lewis G. Carr " "
 James D. Henry " "
 Charles N. Carr " "
 Thomas E. Houston " "
 Curtis P. Clayton " "
 A. L. Richards " "
 E. Levi & Bro. " "
 William Pereira " "
 Silver Gloss Laundry " "
 Oliver K. Reed " "
 H. de la Statins & Sons. " "
 H. G. Craven " "
 M. & J. Metzler " "
 John Wanamaker's Laundry " "
 H. Wallachs' Sons. " "
 Original Family Laundry " "
 William M. Barnes " "
 Colonade Hotel Laundry " "
 B. D. Long Pittsburgh
 Sisters of Mercy Laundry " "
 Iron City Laundry " "
 Electric Laundry " "
 Birmingham St'm Laundry " "
 Livengood & Campbell Punxsutawney
 Stackpole Bros. Ridgway
 A. B. Warman Scranton
 John H. Blain Sunbury
 Warren Steam Laundry Warren
 R. F. Stevenson Washington
 C. A. Linnekin Wilkesbarre
 J. M. Burdick " "

TENNESSEE.

Nelson & Ransom East Nashville
 Wright & Hinshaw Knoxville
 Memphis Steam Laundry Memphis
 A. M. Dolph Co. " "
 Henry Loeb " "
 John A. McEwen Nashville
 Saratoga Laundry " "
 G. W. Thompson " "

LAUNDRIES—(Continued).

TEXAS.

George S. Leachman.....Dallas
W. J. Logan & Co....."

VERMONT.

Tim, Wallerstein & Co.....Rutland

VIRGINIA.

Light & Rosenkrans.....Lynchburg
E. Shepardson.....Richmond
Eugene Shepardson....."
New York City Laundry....."

WEST VIRGINIA.

George Eversole.....Huntington
Stayton Bros. & Benell.....Parkersburg
J. F. Potter.....Wheeling
Lutz Bros....."

WISCONSIN.

The Laundry.....Milwaukee

CANADA.

Cree, Scott & Co.....Montreal

PAPER MAKERS.

CONNECTICUT.

The Peter Adams Co.....Buckland
F. R. Walker & Son Eagle
Mills.....Burnside
Seymour Paper Co.....WindsorLocks

DELAWARE.

Curtis & Bro.....Newark
Jessup & Moore Paper Co.....Wilmington

PAPER MAKERS—(Continued).

MASSACHUSETTS.

L. L. Brown Paper Co.....Adams
Z. Crane, Jr., Bros.....Dalton
Crane & Co., U. S. Treasury
Mill....."
Fairfield Paper Co.....Fairfield
George W. Wheelwright
Paper Mfg. Co.....Fitchburg
Fitchburg Paper Co....."
George W. Wheelwright
Paper Co.....Furnace
Wauregan Paper Co.....Holyoke
Newton Paper Co....."
Riverside Paper Co....."
Geo. R. Dickinson Paper Co....."
Parsons Paper Co....."
Riverside Mills....."
Albion Paper Co....."
Whiting Paper Co....."
Massasoit Paper Co....."
Chemical Paper Co....."
Syms & Dudley Paper Co....."
Nonotuck Paper Co....."
Crocker Mfg. Co....."
George W. Wheelwright
Paper Co.....Leominster
Southworth.....Mittineague
Vernon Bros.....Salmon Falls
Carew Mfg. Co.....S. Hadley Falls
Crane Bros.....Westfield
Vernon Bros. & Co....."

MAINE.

Mfg. Investment Co.....Madison

NEW JERSEY.

Diamond Mills Paper Co.....Milburn
Ivanhoe Paper Co.....Paterson

NEW YORK.

Huyck & Argersinger.....Albany
Fort Orange Paper Co.....Castleton
Whiteman Paper Mills.....Dansville
Hudson River Water-Power
and Paper Co.....Mechanicville
Adams & Bishop Paper Co.....Newburgh
Arlington Mills, H. Powell
Ramsdel.....Salisbury Mills

PAPER MKRS.—NEW YORK (Cont.).

Ticonderoga Pulp and
Paper Co.....Ticonderoga
Gilbert & Bell.....Waterford

OHIO.

Harding Paper Co.....Middletown

PENNSYLVANIA.

The Ashland Paper Mills, Manayunk
Mt. Holly Paper Co.....Mt. HollySprings
Martin & Wm. H. Nixon, Philadelphia
P. H. Glatfelter.....Spring Forge

VIRGINIA.

Richmond Paper Mfg Co. Richmond

HOTELS, CLUBS, OFFICE BUILDINGS, PUBLIC IN- STITUTIONS, ETC.

ARKANSAS.

Court H. and Post Office, Fort Smith

CALIFORNIA.

Belmont Schools.....Belmont
Hopkins Academy.....Oakland
Pacific Union Club.....San Francisco

DISTRICT OF COLUMBIA.

J. Tabor Johnson (Sanita-
rium).....Washington
Arlington House....."
Hotel Arno....."
The Shoreham....."
Treasury Department....."
Chamberlain's Hotel....."

FLORIDA.

Post Hospital.....Key West

GEORGIA.

H. I. Kimball House.....Atlanta

HOTELS, CLUBS, ETC.—(Continued).

ILLINOIS.

The Halliday Hotel.....Cairo
 Jacksonville Insane Asylum,
 Second order.....Jacksonville
 Jacksonville Female Acad-
 emy....."
 Dunlap House....."
 State Penitentiary.....Joliet
 U. S. Marine Hospital.....Lake View

INDIANA.

St. Mary's Academic Institute. St. Mary's

KENTUCKY.

Hotel Rassinier.....Louisville
 Custom House and Post Office. "

LOUISIANA.

Montleone Building.....New Orleans
 St. Alphonsus' Church....."
 St. Joseph's Orphan Asylum....."
 Charity Hospital....."
 Mount Carmel Asylum....."
 U. S. Custom House....."
 U. S. Army....."
 U. S. Marine Hospital....."
 Hotel Royal....."
 Boston Club....."
 Deneschaud Hotel....."
 Metropolitan Club....."
 Louisiana Insane Hospital....."
 Jewish Widows' Orphan's
 Home....."
 Hotel Vonderbank....."
 Hotel Dieu....."
 Touro Infirmary....."
 New Orleans "Picayune"....."
 Cosmopolitan Hotel....."

MARYLAND.

Maryland Club.....Baltimore

MASSACHUSETTS.

Chas. S. Eaton.....Boston

HOTELS, CLUBS, ETC.—(Continued).

MISSOURI.

Centropolis Hotel Co.....Kansas City
 New York Life Ins. Co....."
 The "Natarium"....."
 Merchants' Exchange.....St. Louis
 St. Louis Exposition....."
 Turner Building....."
 Beers' Hotel....."
 Lincoln Flats....."
 St. Louis Club....."
 Hurst's Hotel....."
 Sprague's Hotel....."
 St. Louis Exposition and
 Music Hall....."
 Commercial Building....."
 Missouri Pacific Railway
 Hospital....."

NEBRASKA.

New York Life Ins. Co.....Omaha
 The Millard Hotel....."
 First National Bank....."
 Merchants' National Bank....."

NEW YORK.

Capitol Building.....Albany
 Madison Ave. Ref'd Church....."
 Inst. for the Deaf and Dumb....."
 Albany Penitentiary....."
 Executive Mansion....."
 Young Men's Chris. Ass'n....."
 St. Agnes School....."
 Old Men's Home, Troy R'd....."
 Albany City Hospital....."
 Albany Rural Cemetery Office....."
 New York State Nat. Bank....."
 Lathrop Memorial....."
 Albany Hygeia Co....."
 Methodist Epis. Hospital.....Brooklyn
 Iroquois Hotel.....Buffalo
 Buffalo Asylum....."
 Clinton Prison.....Dannemora
 N. Y. State Reformatory.....Elmira
 F. W. Specht.....Lockport
 Central R.R. of N. J. Bldg.....New York City
 Department City Works....."
 Montana Apartment House....."
 Hotel Renaissance....."
 Everard's Baths....."
 The Winthrop....."
 Central Trust Co....."
 Y. Y. Central R.R. Shops.....West Albany

HOTELS, CLUBS, ETC.—(Continued).

NEW JERSEY.

Presbyt. Ministers' House. Perth Amboy
 West End Hotel.....Long Branch
 Barrett-Brown Building.....Newark

OHIO.

Sisters of Notre Dame.....Cincinnati
 Hamilton County Court H."
 Gibson House....."
 Burnet House....."
 St. Nicholas....."
 University Club....."
 H. C. Stewart....."
 Fay & Gruber....."
 Wm. Ambler....."
 Henry Moorman....."
 A. C. Butler....."
 Hotel "De Alms"....."
 Ullman, Einstein & Co.....Cleveland
 Euclid Ave. Baptist Church....."
 City Fountain.....Norwalk
 Burnett House.....Toledo

PENNSYLVANIA.

Allegheny Gen'l Hospital.....Allegheny City
 Hotel Federal....."
 Apollo Iron and Steel Co.
 (Club House).....Apollo
 State Normal School.....Clarion
 Executive Mansion.....Harrisburg
 Lebanon Industrial Works. Lebanon
 Penna. Reform School.....Morgantown Stat.
 Mutual Life Ins. Co.....Philadelphia
 Drexel Institute....."
 Frankford Arsenal....."
 Franklin Institute....."
 House of Refuge....."
 First University Church....."
 Hospital for Women....."
 Phila. Public Buildings....."
 Monongahela House.....Pittsburgh
 Holy Ghost College....."
 Ursuline Academy....."
 Westinghouse Building....."
 Hussey Building....."
 Bailey & McKennan (Hotel
 Main).....Washington

NORTH CAROLINA.

Battery Park Hotel.....Asheville

HOTELS, CLUBS, ETC.—(Continued).

RHODE ISLAND.

Newport Casino.....Newport

TENNESSEE.

Hotel Luehrman.....Memphis

TEXAS.

Fort Ringgold.....Fort Ringgold
The "McLeod".....Dallas

WEST VIRGINIA.

H. K. List (Office Bldg.)...Wheeling
W. Va. Hospital for Insane. Weston

CANADA.

Kingston Asylum.....Kingston, Ont.
Windsor Hotel.....Montreal
St. Lawrence Hall....."
Provincial Penitentiary...Stony Mountain
Com. Hudson Bay Co.....Winnipeg

MEXICO.

Government Prison.....Guadalajara

BOILER SERVICE.

ARIZONA.

Copper Queen Consol-
ated Mining Co.....Fairbanks

CALIFORNIA.

Edison Electric Light and
Power Co.....San Francisco

CONNECTICUT.

James L. Howard & Co...Hartford

ILLINOIS.

Grasselli Chemical Co...Chicago
Wahl Bros....."
Crane & Co....."

BOILER SERVICE—(Continued).

KENTUCKY.

Trustees of Covington Re-
servoir.....Newport

MARYLAND.

Pennsylvania Steel Co...Sparrow's Point
Maryland Steel Co....."

MASSACHUSETTS.

Border City Mfg. Co.....Fall River
Howland Mills.....New Bedford
Beebe, Webber & Co.....Holyoke

MISSOURI.

St. Joseph Water Works..St. Joseph

NEW JERSEY.

Clark Mile End Spool Cot-
ton Co.....East Newark
Suburban Elec. Light Co..Elizabeth
Welsbach Incandescent
Gas Light Co.....Gloucester City
Edison General Elec. Co..Harrison
Eureka Fire Hose Co.....Jersey City
Elizabethport Steam Cord-
age Co.....Elizabethport
Barrett-Brown Building..Newark
The Fred'k Crane Chem-
ical Co.....Short Hills

NEW YORK.

Quinn & Nolan Ale Brew-
ing Co.....Albany
Beaverwyck Brewing Co..."
Taylor Brewing Co....."
Fort Orange Brewing Co..."
Albany Perforated Wrap-
ping Paper Co....."
R. K. Townsend, Furnace.
Rathbone, Sard & Co.,
Stove Works....."
Albany & Greenbush
Bridge Co....."
Geo. H. Thacher & Co....."
Albany Water Works....."
Worthington Hydraulic
Works.....Brooklyn

BOILER SERVICE—NEW YORK (Cont.).

Departm't of City Works...Brooklyn
Chelsea Jute Mills....."
Buffalo Asylum.....Buffalo
Fort Orange Paper Co.....Castleton
De Land & Co.....Fairport
Booth & Co.....Gloversville
Fred. Swarts.....Greenbush
High Bridge Pumping Sta-
tion, second order.....New York City
Central Trust Co....."
Croton Aqueduct Stat., 98th
St. and Ninth Ave....."
N. New York Lighting Co.."
Syracuse Steel Foundry Co. Syracuse
Frazer, Jones & Co....."
Whitman & Barnes Mfg. Co. "
J. W. & W. L. Gardner...Troy
Thomson-Houston Elec. Co. Yonkers

OHIO.

Cent. Thomson-Houston Co. Cincinnati
Nat. Malleable Castings Co. Toledo

PENNSYLVANIA.

Carnegie Steel Co.....Cochrane Stat.
Carnegie, Phipps & Co.....Homestead
W. Dewees Wood & Co.....McKeesport
Phoenix Iron Co.....Philadelphia
Mutual Life Ins. Co....."
Westinghouse Building...Pittsburgh
Oliver Iron & Steel Co....."
Oil Well Supply Co....."
Oliver & Roberts Wire Co. "
(Limited)....."
McCullough, Dalzell & Co.."
Westinghouse Air Brake Co. Wilmerding
York Manufacturing Co....York

RHODE ISLAND.

Corliss Steam Engine Co...Providence

VIRGINIA.

Old Dominion Cotton Mills. Richmond

NOTE.—Many of the Filters in preceding
lists are purifying water for boiler feed in
addition to supplying filtered water for
manufacturing and other purposes.

SCHEDULE OF VARIOUS SIZES OF FILTERS.

Diameter.	Height.	Inlet and Outlet Pipes.	Waste Pipe.	GALLONS PER MINUTE		Maximum Gallons per 24 hours.	Test Pressure per Square Inch.	Approximate Shipping Weight Filters	Shipping Weight Filtering Material.	PRICE.
				Western States.†	Eastern States.					
12 in.	4 ft. 6 in.	¾ in.	¾ in.	2	3	4,320	100 lbs.	185 lbs.	280 lbs.	\$85.00
16 "	4 " 6 "	¾ "	¾ "	3	5	7,000	100 "	275 "	420 "	100.00
20 "	4 " 6 "	1 "	1 "	5	7	10,000	100 "	400 "	700 "	150.00
24 "	5 "	1¼ "	1¼ "	7	10	14,400	100 "	950 "	1,000 "	
30 "	5 " 6 in.	1½ "	1½ "	10	15	21,500	100 "	1,400 "	1,475 "	350.00
36 "	5 " 6 "	1½ "	1½ "	15	20	28,800	100 "	1,700 "	2,000 "	
40 "	5 " 6 "	2 "	2 "	20	30	43,250	100 "	1,900 "	2,700 "	500.00
50 "	5 " 6 "	2½ "	2½ "	30	40	57,600	100 "	2,700 "	5,000 "	700.00
5 ft. 6 "		2½ "	2½ "	40	60	86,400	100 "	3,500 "	7,350 "	900.00
6½ "	6 " 8 "	3 "	3 "	70	100	144,000	100 "	4,250 "	13,500 "	
8 "	8 " 6 "	4 "	4 "	100	150	216,000	100 "	8,000 "	20,000 "	
10 "	8 " 6 "	6 "	6 "	170	250	360,000	100 "	12,000 "	31,500 "	
*8 "	20 " long.	8 "	8 "	300	400	576,000	200 "	12,000 "	54,000 "	

*Horizontal.

†The water in Western States is generally much more turbid than in Eastern States.

These Filters can be made to withstand any required pressure up to 200 pounds, at additional cost for strengthening same. Delivery in all cases f. o. b. our Works, Newark, N. J.

In Writing for Information regarding Filtration, please state:

1st.—What is the source of water supply.

2d.—The size of supply pipe to Filter.

3d.—The maximum pressure in the supply pipe.

4th.—The maximum quantity of water used per minute.

5th.—Is the water clear, turbid, hard or soft?

6th.—Has the water any odor or taste, or does it contain any vegetable matter?

7th.—Is the water used for drinking or for mechanical purposes?

8th.—If water is for boiler feed, please state horse power of boiler and the steam pressure carried.

Upon the receipt of the information above requested, we will either answer by return mail, or we will give the matter personal attention; we will, in all cases, *guarantee* results to be satisfactory in every particular.

Schedule of various size Filters on page 31.

New York Filter Company, 145 Broadway, New York.

OFFICERS.

CHAS. C. WORTHINGTON, <i>President</i> ,	-	New York City.
(Of Henry R. Worthington.)		
JOHN W. HYATT, <i>Vice-President</i> ,	-	Newark, N. J.
HENRY P. JONES, <i>Treasurer</i> ,	- -	Newark, N. J.
JOHN C. SYMONS, <i>Secretary</i> ,	- -	New York City.

DIRECTORS.

CHAS. C. WORTHINGTON,	A. C. WESTERVELT,	ALBERT R. LEEDS,
JOHN W. HYATT,	PETER KINNEAR,	THEO. F. MILLER,
HENRY P. JONES,	WM. M. DEUTSCH,	JOHN D. HARRISON.
L. O. GODDARD,	JAS. H. BLESSING,	