In this Number: CHICAGO JOURNEYMEN PLUMBERS ASSOCIATION

Domestic Engineering

PLUMBING. HEATING. LIGHTING. VENTILATING

Whole No. 344.

32-42 Dearborn Street, Chicago, Saturday, July 15, 1899.

Vol. XIV. No 3



LUDINGTON BUILDING, CHICAGO.

Jenney & Mundie, Architects.

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Boston New York Buffalo Philadelphia Lendon

St. Louis Minneapolis AMERICAN RADIATOR COMPANY

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Some fitters think that goods merit the 'steamfitters' attention on account of their variety. We, however, believe that it is not a question of how many, but how good. The "WINCHESTER" heater to day is as it was when first marketed, simply because it has demonstrated its construction to be the best yet devised for a house heating boiler. We would improve it if we could. Smith & Thayer Company, Boston, Mass.

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Model Radiator Company,

Manufacturers of

Superior an Model Radiators.

BOILERS AND STEAMFITTERS' SUPPLIES.

Write us for prices and see how much we can save you.

FACTORY: ELWOOD, IND.

40 DEARBORN STREET, CHICAGO.



Two Best Boilers

The "Wilhelm!" is a high grade copper range boiler tested to 250 lbs. There can be no better noiler made. The "Modern" is for use where the pressure does not exceed 100 lbs. It is guaranteed against collapse.

Very attractive discounts furnished.

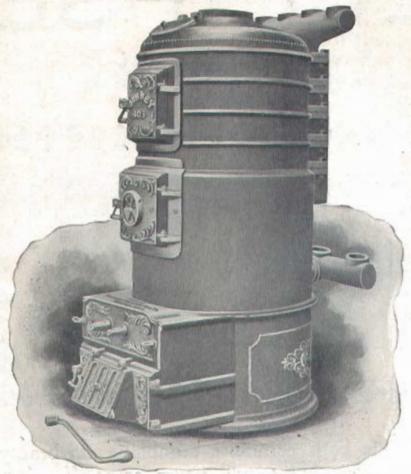
HAYES MFG. CO., PATERSON, N.J.



Gurney Heaters "400 SERIES"

FOR HOT WATER.

Made in Ten Sizes, capacities 300 to 2,000 square feet direct radiation.



Has Push Nipple Joints, Has Deep Fire Pot.

Each Heater thoroughly tested, Ratings Guaranteed.

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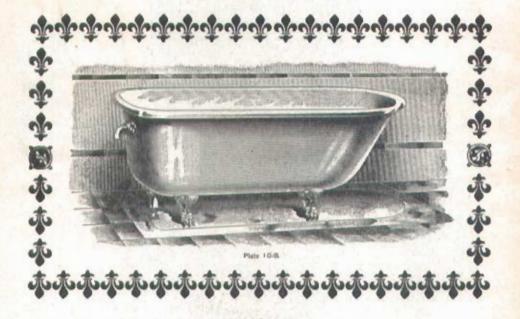
Gurney Heater Manufacturing Co.

New York Branch,
111 Fifth Ave., Cor. 18th St.,
NEW YORK CITY.

HEAD OFFICE 74 Franklin St. Cor. Arch,
BOSTON, MASS.

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This bath combines durability and beauty. The porcelain lining will never come off. The bath is low and easy to enter and leave.

Write for Catalogue of our sanitary porcelain enameled baths, sinks, lavatories and closets.

Most Jobbers Sell Them.

DAWES & MYLER

UP SHE COES

The No.14 Flush

To \$25.00 List.





WE HAD THREE OPTIONS

1st. SELL WITHOUT PROFIT

2d. CHEAPEN OUR PRODUCTION

3d. MAINTAIN QUALITY AND ADVANCE
THE DIFFERENCE IN COST OF MATERIAL.

We accepted the Third which is the only one for an honest Manufacturer.



The Instantaneous Water Heating Gompany

82 AND 86 WEST BROADWAY, NEW YORK. 90 OHIO STREET, CHICAGO.

HELPS PLUMBER AND JOBBER.

Selling to jobbers exclusively, as we do, helps both plumber and jobber.

It encourages the latter to carry a full line of our products. That gets these products nearer the plumber. Where there's a jobbing house in or near his city he may be able to see the goods before buying. And he can of course have his orders filled more promptly when he orders from a nearby house.

So far as the jobber is concerned, he readily appreciates the advantage of doing business with a concern that does not enter into competition with him.

TRENTON POTTERIES CO., TRENTON, N. J.

Sanitary Earthenware, Genuine Vitrified China, Solid Porcelain Ware, Etc.

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DOES THE WORK



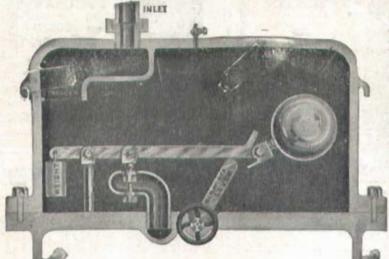


STEAM 300 TO 1000 SQUARE FEET. WATER 500 TO 1,600 SQUARE FEET.

RICHMOND STOVE CO.,

85 CENTRE ST. NEW YORK. NORWICH CONN

The Eclipse STEAM



An Intermittent or Continuous Automatic Steam Trap

> For High or Low Pressure Systems

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THE JOHN DAVIS CO.,

51 to 79 Michigan St., Chicago



STEAM - - WATER

CAPACITIES:

Square feet Water Radiation 100 to 6000 "Steam" 200 to 3600

The most complete Line under one name, made in the United States. NSISTING as we always do, that quality and make count to the user of heating apparatus, you surely cannot afford to overlook the



The qualities which gained for them success are

Large Combustion Chambers; Direct Fire Surfaces; Large Flues; Vertical Circulation; Ample Ash-Pits.

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John Maddock & Sons Trenton, N. J.

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Sanitary Specialties of Every Description.

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GATE VALVES



The Kennedy Valve Mfg. Co. 55 Beekman St. Works, COXSACKIE, N. Y. NEW YORK.



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Wilks' WATER Heaters

and Steam Generators

Best in use. All steel. No colls. "Flues."

No Cast Iron Sections BEND FOR CATALOGUE

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Refers to Domestic Engineering



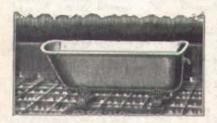
Natural Gas Supplies kinds

PITTSBURGH SUPPLY CO. Ltd.

Pittsburgh, Pa.

Write for Catalogue

SOMETHING NEW.



Our "NEW ECONOMY" White Enameled Iron Bath illustrated herewith is a neat narrow Roll Rim design intended for use where but small space is available and in bath rooms where it is desired to replace a copper or zinc tub with an Enameled Iron Bath at as little cost for alteration as possible.

New Economy Bath with 156 in. Full Roll Rim.

Height on Legs, 23 in. Depth, 18 in. Width over rim, 24 1/2 in. Width inside, 21 3/2 in.

We are now ready to receive sample orders for this bath. Try it; no stock is complete without it, and no plumber goes long without needing such a bath to bridge over an emergency.

The Ahrens & Ott Mfg. Co. Inc., LOUISVILLE, KY., U.S. A.

The Combination Hot Water Heater



For heating Houses, Stores, Conservator ies and Bath Rooms

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The combination of hot air and hot water can be used, or hot water alone Send for price list::::

The National Pipe Bending Co.

117 Lloyd St., New Haven, Conn.





MCCANN'S Backwater Valve

prevents the flooding of cellars by water backing up through the basement or area drains. Can be set in place in five minutes without breaking the newer or basement floor. The simplest, cheapest and best valve on the market. Ask your jobber for it, or write

738 East 47th Street

ANDREW McCANN CHICAGO, ILL.



Regulating Valves

Steam— Water

They do Regulate

Ross Valve

Troy, N.Y.



A Savage

WILL SIT FOR HOURS AND WATCH THE DEATH STRUGGLES OF A FLY EMPALED ON A NEEDLE, AS THE FLY DEFTLY AND HANDLES A SMALL DUMB BELL OF CORK SMEARED WITH MOLASSES.

Cultured and Refined People

WATCH WITH NEVER FAILING INTEREST

The High Grade Sanitary Appliances

The Ideal Manufacturing Company,

Write for Catalogue describing 100 styles Low Tank Closets and Centrifugal Adjustable Traps.

DETROIT, MICH.



ONE PIECE

...AND...

NO LEAKS

Carton "B" Series Steam Heater.

JA THE JA

INTERNATIONAL HEATER COMPANY

Largest Makers of Heaters in the World,

UTICA, N. Y.

NEW YORK CHICAGO BOSTON
237 WATER STREET, 48 DEARBORN STREET, 47 UNION STREET,

Domestic Engineering

PLUMBING. HEATING. LIGHTING. VENTILATING

WHOLE No. 344.

SATURDAY, JULY 15, 1899

VOL. XIV. No. 3

CHICAGO JOURNEYMEN PLUMBERS' ASSOCIATION WORKING SCALE.

The following rules have been adopted by the Chicago Journeymen Plumbers' Association: These do not meet with the approval of the master plumbers, who claim that to complete their contracts under the new scale of work which the journeymen propose to do will cost twice as much as before. Those affected state that they should at least have received from sixty to ninety days' notice from the journeymen of the adoption of such an important measure, in order that they could at least have the means of protecting themselves, by figuring future work on an entirely different basis, The resolution is also regarded by the master plumbers as a violation of the agreement at present existing between the master plumbers and journeymen plumbers' associations, which expressly provides that any proposed change shall be submitted in writing sixty days in advance by either side. Steps have been taken to bring the arbitration committees of both associations together with a view of settling amicably if possible the present difficulty. Those most vitally interested consider that if the resolution is allowed to go into operation it should be medified so that the work already contracted for will be exempt from its provisions.

Schedule of Work.

Whereas, It has come to the notice of the members of this association that defective and unsanitary plumbing work is being installed in various buildings in Chicago, and Whereas, Such defective and unsanitary work endangers the health of the community at large, and,

Whereas, Such work is being caused by the keen competition in our business, necessitating lowering the class of work being done; therefore, be it resolved

That the following schedule of work be adopted by this association:

Lead Work.

Rule 1. When working on lead work eight wiped joints will be considered a day's work.

Iron Pipe.

Rule 2. When working on iron pipe the measuring, cutting, threading and placing in position of fifteen threads of one inch or under shall be considered as day's work.

Rule 3. Ten threads on 1½, 1½, and 2 inch pipe shall be considered a day's work.

Cast Iron Pipe.

Rule 4. When running soil pipe in a vertical manner, the following shall be considered eight hours' work:

6-inch	6	enlked	joints.
5-inch	6	**	- 16
4-Inch	9	44	16
	10	**	.64
2-inch		16	- 66

Rule 5. When running soil pipe in a horizontal manner, the following shall be considered eight hours' work:

PROMINENT BUYERS-VII.



W. B. BLOWERS.

W. B. Blowers has been connected with the Humphryes Manufacturing Co., Mansfield, Ohio, for twelve years. Up to 1895 he traveled for the company in Central, Western and Southern states, and in 1895 was elected secretary of the company, and since that time he has looked after the purchasing of supplies:





Morgan's "20th Century" Heating Boilers, Chicago

6-inch	 	4	calked	joints.
5-Inch				**
4-Inch				
3-inch		71.34	- 44	- 11
9-inch			64	- 11

Finishing.

Rule 6. When finishing on flats or apartment, hotel or office building, one fixture shall be considered an average day's work, except laundry tubs, then each apartment shall constitute one fixture.

Durham System.

Rule 7. When working on Durham system the running of 2½, 3 and 4 inch pipe, when working on stacks, three stories shall be considered a day's work.

When working on 5, 6, and 8 inch pipe on stacks two stories shall be considered a day's work.

Rule 8. Pump pipes, down sponts and other straight stacks of pipe; 2½ and 3 lnch, 50 feet shall be considered a day's ork; 4 and 5 lnch, 40 feet a day's work; 6 and 8 inch, 30 feet a day's work.

Rule 9. In cases where work is of a omplicated nature, or workmen are delayed through no fault of theirs, the absolute performance of amounts as laid down in schedule shall not be considered compulsory by this association.

Rule 10. In all cases a fair day's work ahall be performed, and all work done by members must be strictly first-class.

Rule 11. Any member violating any of these rules shall be dealt with according to Sec. 16 of working rules, which reads, which of one day's pay for first offense, and two days' pay for second offense, and if he persists in his violation the association shall deal with him as it sees of.

Legal Holidays.

Rule 12. New Year, Fourth of July, Thanksgiving, Christmas, all Sundays and Saturdays after 12 M., and all night work after 7 o'clock P. M. shall be paid for at the rate of double time.

No member shall perform any work on Labor Day except by the consent of the association.

A. W. Stevens, a well known plumber and steamfitter of Logansport, Ind., was in the city this week.

THE WHOLESALERS.

News of the Manufacturing and Jobbing Trade.

OF INTEREST TO PLUMBING TRADE.

Pancoast Ventilators.

In the past month the National Pancoast Ventilator Co., of Philadelphia, have shipped thirteen 42-inch copper ventilators for a Brooklyn brewery; a carload of 48-inch and bases for the General E'ectric Co., at Harrison, N. J.; three 72-inch for Finley Ackers' stables, Philadelphia; one 60-inch, two 64, two 55, four 32 and a number of smaller sizes.

Another Potters' Deal On.

Word comes from Pittsburg that another attempt will be made to organize a stoneware pottery combine. Several efforts, the last of which was made last week, have failed to result in an agreement. Another meeting will be held next week. The proposed company is to be known as the American Stoneware Co., and may embrace about thirty plants in Ohio and Pennsylvania. While this does not include sanitary potters, apparently, there are evidences that the trust idea dies hard.

Already Working the Stock Market.

The directors of the International Pump Co. will meet during the present month to act on the dividends. It is understood that a quarterly dividend of 11/2 per cent will be declared on the preferred stock, but that no distribution will be ordered on the common shares, although the statement of earnings will show between 6 and 8 per cent per annum earned above the preferred dividend. Economies are being effected by consolidating the various offices of the companies, which through annalgamation formed the present corporation. Not only is this policy being pursued in this country, but in the important cities of Europe, such as Berlin, St. Petersburg, Paris and London.

Succeed Geo. P. Jacobs & Co.

Thomas M. Delaney & Co. succeed to the branch of George P. Jacobs & Co. at 144 Flatbush avenue, Brooklyn. Mr. Delaney is well and favorably known to the trade in Brooklyn. He writes: "I take great pleasure in informing my friends and the trade in general that I have purchased of George P, Jacobs & Co. the stock in the fixtures in the above store, where I shall continue to carry on the business of plumbers, steam and gas fitters' supplies, under the name of Thomas M. Delaney & Co. It is my desire and intention to study the wants and convenience of the trade, and in every way to merit a continuance of the patronage which was so liberally accorded my predecessors."

An Eastern Office.

The Gumbo Cement Co., 161 Lake street, Chicago, have recently opened an eastern office at 105 Beekman street, New York City, under the management of T. F. McKeag, and all eastern inquiries will receive prompt attention from this address.

H. V. Seymour, president of the company, has recently returned from Old Point Comfort, W. Va., where he was attending a railroad convention of Master Mechanics and Master Builders, where the company had a fine-exhibit of their well known product. A good many railroads are using Gumbo cement in the place of red lead for the packing of cylinder heads, and for all pipe joints, especially compressed air work. The People's Gas Light & Coke Co., Chicago, have discarded red and white lead entirely, and are using Gumbo cement on all of their pipe threads and mains.

Potters' Convention in Trenton.

The ninth annual convention of the National Brotherhood of Operative Potters met in Trenton, N. J., July 7-10. Delegates attended from East Liverpool, Steubenville, Toronto, Akron and East Palestine, Ohio; Wheeling, W. Va.; Evansville, Ind., and Peoria, Iil.

President Albert S. Hughes, of East Liverpool, called the meeting to order, and introduced Mayor Frank O. Briggs, who said in part:

"Trenton is the birthplace of the potterp industry in America and your craft is now the strongest in numbers of any in our city. We take especial pride in your achievements. It is a significant fact that while the other industries have largely passed into the control of trusts and monopolies, the potteries are still in the hands of individual owners. This adds to your responsibility, and the result of your deliberations here will have great influence for good or evil in the future.

If I may be bold enough to caution you, I would say, bear in mind the good of the many who are depending on you. Let your actions be Just in all things, and then there will be no limit to your power for good. You can benefit yourself, your employers and the community."

In his reply President Hughes said:
"I feel that all His Honor has spoken is
the truth, and that the delegates should
work along the lines suggested."

The principal work before the convention is the adjustment of the wage scale. The lenders say that they simply desire a uniform scale, and have no intention of demanding a general increase in wages. The convention lasted three days.

Soil Pipe Combine.

The consolidation of manufacturers of soil pipe and soil pipe fittings is nearing completion, which is to be known as the Central Foundry Co. It will be capitalized at \$14,000,000, with an issue of \$4,000,000 6 per cent bonds. The capital stock of \$14,000,000 is equally divided between preferred, paying a 7 per cent. dividend, and common. Baring, Magoun & Co. are the bankers, and it is said that a considerable portion of the stock will be taken by their English clients.

The combine includes nearly all the manufacturers of porcelain and fron plumbing pipes.

Alexander & Green, corporation attorneys, New York, are counsel for the bankers. The charter has been already drawn up, and the company will probably be incorporated in New Jersey. At the office of Baring, Magoun & Co. it was said that they had the matter in hand and would finance the scheme when it was ready.

"At present," said Mr. Crane, of that firm, "there is nothing to give out, as the details regarding the purchase price of the constituent companies have not been decided upon."

A new feature of the consolidation is presented in the financial plan. All the common stock will be deposited in a trust company for five years, so that it will act as an evidence of good faith in that they will not begin the construction of new factories. It will also prevent in a measure stock jobbing by those in control. A meeting of all the manufacturers whose plants it is proposed to absorb is now being held in New York, and it is reported that the completion of the combination is assured.

It is a significant fact that Baring, Magoun & Co. have taken hold of the last two industrials which are ready for financing. On the street the opinion prevails that considerable English capital is to be invested in both the cotton yarn combine, which is at present being financed, and the projected Central Foundry Co.

Trenton Potteries Defeat the Oliphants.

The famous case of the Trenton Potteries Co, against the Oliphants has been decided against the Oliphants by the New Jersey supreme court.

The court of errors and appeals revised the ruling of Vice-Chancellor Gray in the case of the Trenton Potteries Co, against Richard C. Oliphant and his brothers. The Oliphants were one of the half-dozen leading sanitary ware manufacturers of this city that went to make up the Trenton Potteries Co. Stocks of the company were taken by the Oliphants in part payment for their plant. They had some disagreement with the management and started a new pottery of their own. The trust sued for an injunction against them on the ground that their going into business anew was contrary to their agreement at the time of sale to the position Vice-Chancellor trust. This Gray refused to uphold, taking the position that the agreement was in restraint of trade and therefore illegal, and not one which the courts could enforce. By a vote of 10 to 2 the court of errors and appeals decided that the Trenton Potteries Co. had a right to demand and obtain the enforcement of its agreement with the Oliphants. It was within its right, the court ruled, when it bought the plant and business of the several potteries. When a business is bought out, an agreement upon the part of the seller not to resume operations, according to the decision, was necessary to guarantee to the full extent the acquirement of that which had been purchased. It made no differ-

ence if the result of the agreement was to restrain trade. The court had power to restrain combinations to enhance prices of the necessaries of life, but could not restrain one corporation from selling out to another. In deciding the case the higher court was controlled by the fact that the legislature had expressly conferred upon corporations the right to purchase and hold the stock and business of any other corporation or individual. The legislature might have prohibited or limited the right of one corporation to absorb others, but it had not done so. Therefore the court could only enforce the Trenton Potteries Co.'s right to buy out the Oliphants, and to compel the Oliphants to live up to their agreement. The decision is interpreted as giving any corporation, under New Jersey law, the right to absorb all other corporations formed to conduct a similar business. The corporation can only be reached if it can be shown to be a combination to enhance the price of the necessaries of life.

All Done Now.

A consolidation of the wrought steel and iron tube and pipe industry of the United States, with a capital stock of \$80,000,000, to be known as the National Tube Company, was completed by William Nelson Cromwell and Edmund C. Converse, the consolidation purchasers, at the banking-house of J. P. Morgan & Co., July 12,

The new trust embraces a controlling interest in the steel and iron tube industry. It is the largest tube concern in the world. It is the third largest steel and iron corporation in existence, only the Krupp and Carnegie companies exceeding it. The new trust has secured control of twenty-two companies. They are: National Tube Works Co., McKeesport, Pa.; Riverside Iron Works, Wheeling, W. Va.; United States Tube Co., Christy Park, Pa.; National Rolling Mills, Mc-Keesport, Pa.; American Tube and Iron Co., Youngstown, O.; American Tube and Iron Co., Middletown, Pa.; National Forge and Iron Co., McKeesport, Pa.; Pennsylvania Tube Works, Pittsburg, Pa.; Boston Iron and Steel Co., McKeesport, Pa.; Allison Manufacturing Co., Philadelphia; Monongahela Furnaces, Mc-Keesport, Pa.; Morris, Tasker & Co., Delaware iron plant, Newcastle, Del.; Republic Iron Works, Pittsburg, Pa.; Continental Tube and Elba Iron Works, Pittsburg, Pa.; National Galvanizing Works, Versailles, Pa.; Chester Pipe and Tube Co., Chester, Pa.; Monongahela Steel Works, McKeesport, Pa.; Hoover Steel Plant, Norristown, Pa.; Oil City Tube Works, Oil City, Pa.; Syracuse Tube Works, Syracuse, N. Y.; Ohio Tube Co., Warren, O.; Western Tube Co., Kewanee, Ill.

The annual output of the works at present is about 1,000,000 tons, which will be increased as rapidly as possible. This embraces hundreds of varieties of steel and iron goods. The estimated net earnings are \$7,000,000, and the saving by consolidation is put at \$3,000,000.

At a meeting of the stockholders the following officers and directors were chosen:

President-Edmund C. Converse.

Chairman of the Board-Joshua Rhodes.

First Vice President, in charge of Manufacturing-F. J. Hearns.

Second Vice President, in Charge of Mercantile Affairs—Horace Cosby,

Third Vice President, Financial—Francis L. Potts.

General Manager Manufacturing Department—A. S. Matheson.

Assistant Treasurer-William H. Latshaw.

General Counsel-Sullivan & Cromwell.

President Converse said "The company will employ 25,000 men, there being over 8,000 at its McKeesport mills alone. The company does not design limiting production by shutting down mills; on the other hand, large increase in mill capacity and additional productive power is actively under way."

DEATH.

Lancaster, Pa.—Geo. Hipple, a plumber at 28 Laurel street, who was seriously injured by falling through the floor of a house on which he had been working, died from his injuries. He was forty-one years old and leaves a wife and four children.

Happenings of General Interest to the Wholesale Heating Trade.

Patterns Will Soon be Ready.

The Prizer-Painter Stove & Heater Co. of Reading, Pa., are rapidly completing their patterns for their line of stoves, furnaces and heaters, and will be in the market with a full line of various patterns and sizes in about two weeks. This firm is specially well equipped for the manufacture of these goods; they own seven acres of ground on which their works stand and the main building is of five stories with large office, warehouse, pattern, shipping, engine and mounting rooms; they also have a separate building to be used for stock or storage with a capacity of some 300 heaters. The foundry calls for special comment being 150 x 120 feet, specially built for the purpose intended, with two cupolas situated in the center, with a capacity of fifty tons a day, forty and ten, respectively, the foundry is high, roomy and exceptionally light. The works throughout are fitted with every modern labor saving device that will facilitate quick execution of orders, and are located with unusual railroad facilities, having sidings direct from the P. R. R. and the Philadelphia & Reading R. R. They have contracted for a stock of pig iron that they expect to see them well through the year and at prices that will enable them to interest their customers in their manufactured product.

Baseball Game.

Invitations have been issued for the baseball game which is to be held to-day at three o'clock at Hand's Park, corner Sixty-seventh street and Stony Island avenue, Chicago, between steamfitters and members of the supply houses.

The following is the official cast:

For supply houses: Manager, J. P. Dugger; captain, Nate Garnsey; umpire, James Mackey; scorer, D. E. McCabe,

For steamfitters: Manager, E. M. Craig; captain, N. C. Darrow; umpire, Jno. G. Roland; scorer, Jno. J. Spear,

Master of the grounds, George E. Boylston,

The players on the manufacturers' team are as follows:

Second base, D. F. Morgan, Morgan

Boller Co.; short stop, C, K. Foster, American Radiator Co.; first base, J. E. Holland, Holland Radiator Co.; third base, R. W. Rowan, Chicago Engineer Supply Co.; catcher, S. O. Dugger, Western Tube Co.; left field, J. B. McCabe, United States Heater Co.; center field, W. A. Cameron, Kellogg-McKay-Cameron Co.; right field, W. W. Girrard, Crane Co.; pitcher, W. B. Garnsey, International Heater Co.

The master steamfitters' team is composed of the following:

Second base, W. H. Herbert; short stop, Nelson J. Swanson; first base, E. M. Craig; third base, J. Houlihan; catcher, Mr. O'Shea; left field, W. A. Leach; center field, J. J. Spear; right field, J. Cahill; pitcher, N. C. Darrow, Those on the bench were Messrs. Mertz, Helm, Sullivan and Rood.

PERSONAL.

W. R. Fay, formerly of Galesburg, Ill., was in the city this week.

O. P. Benjamin, of the O. P. Benjamin Manufacturing Co., Lafayette, Ind., was in town last week.

C. C. Hartwell, the pushing New Orleans plumber, has been spending some time in New York and Chicago.

W. H. Sullivan, of the Sullivan Plumbing and Heating Co., Bay City, Mich., has returned after a five weeks' sojourn at the St. Louis, Mich., sanitarium, where he went for treatment for nervousness.

FINANCIAL TROUBLE.

New York City.—John H. Comer, assignee for Miller & Coates, has sent out a notice to the effect that but for an unavoidable lawsuit the estate of the above company would have been settled some months since. The suit was decided in the assignee's favor, but an appeal was taken. It is possible for a further appeal to be taken; in that case no distribution can be made until the final appeal is decided. If no appeal is taken it will be possible to distribute the funds in hand during the month of September and close the receivership.

THE METAL MARKET.

The following were closing New York prices for car load lots on the days named:

Thursday, July 6th.
Lake copper (unchanged)18.50c Cash
Straits tin (.25 higher)27.90e "
Pig lead dom, (.05 higher) 4.55c "
Spelter spot 6%c, prompt
shipment 5.90e "
Antimony 9.85 to 11.00e "
Tinplates f. o. b. mill (un-
changed) 4.00c "

Friday, July 7th.

Lake copper (unchanged)18,50c (Jash
Straits tin (.45 higher)28.35c	14
Pig lead dom. (.05 higher) 4.55c	11
Spelter spot 61/4c, prompt	
shipment 6.00e	**
Antimony 9.85 to 11.00e	11
Tinplates f. o. b. mill (un-	
changed), 4.00e	11

Monday, July 10th.

anonuay, july rotti	
Lake copper (unchanged) 18.50c (dent
Straits tin (.10 lower)28.25c	44
Pig lead dom. (.05 higher) 4,60c	**
Spelter spot 64c, prompt	
shipment 6.05c	16
Antimony 9.85 to 11.00e	16
Tinplates f. o. b. mill (un-	
changed) 4.00c	44

Tuesday, July 11th.

Lake copper (unchanged) 18,50c (lash.
Straits tin (.50 lower)27.75c	66
Pig lead dom. (unchanged) 4.60c	-61
Spelter, spot 64c, prompt	
shipment 6.05e	44
Antimony	160
Tinplates f. o. b. mill (un-	
changed) 4.00c	66

Wednesday July 12th.

Lake copper (unchanged) 18.50 c	Cash
Straits tin (.371/2 higher)28.121/2c	
Pig lead dom. (unchanged), 4.60 c	- 44
Spelter spot 6%c, prompt	
shipment 6.071/2c	
Antimony 9.80 to 11,00 e	66
Tinplates f. o. b. mill (un-	
changed) 4.00 c	- 14

Chicago Old Metal Market.

The following prices are being paid by metal dealers in Chicago and vicinity. Market firmer with moderate demand:

Heavy Cut Copper & Copper		
Wire14 cts	per	lb.
Light Copper	**	+0
Heavy Machinery Composi-		
tion	16	44
Heavy Yellow Brass10 "	66	44
Light Brass 716"	100	
Clean Red Brass Turnings10 "	41	11
Clean Yellow Brass Turn-		
ings 8 "	**	44
Scrap Lead 41/4"	**	
No. 1 Pewter	**	-
Block Tip Pipe	46	61
Heavy Lead\$3.90 per hu		ed.
Tea Lead 3.40 per ht		

There does not seem to be any cessation in the pig iron market in the territory of Birmingham, Ala., and the quotations continue to remain steady and firm. There are indications that a higher price will be asked by the furnacemen for the product when certain grades become harder to get, though so far they have not made any efforts to advance the quotations materially over the high prices which have prevailed for the last four weeks.

Output in Iron to be Doubled.

One of the furnacemen here when asked about the reported advance in prices said that some people needing iron in small lots had offered fancy prices and had secured the product. What they gave for the iron could not be given as market quotations. He admitted, however, that there were some grades for which the furnacemen hereabouts could not take any orders at all, having none on hand, and not having any prospects of any for the next few months.

The output in Alabama will be double what it is now, if all the repairs that are anticipated and all projects of new furnaces are realized. The only new furnace being built is at Ensley, the steel suburb of Birmingham. The Tennessee Coal, Iron & Railroad Co. have four furnaces there already, three of them being kept in blast all the time. The intentions are to add adequate blowing power so that all four furnaces can be kept in blast at all times and when urgently needed the fifth can be put to work. As soon as the steel plant is ready for operation then all the iron that can be manufactured in the four furnaces can find a sale. At present more iron is being shipped out of Ensley than is being made, some of the iron that was stored in the yards now being moved.

The furnacemen feel satisfied that there will be no change to the reverse in the iron market in this section this year. There are indications that the coming year is going to be a lively one also.

The finished iron demand is keeping up. There is an advance noted in this product, and indications for the future are more than bright. Both the Gate City and Birmingham mills are now the properties of the Republic Iron & Steel Co., and Southern offices are to be opened here. The mills are in full operation again, after a shut-down of three days only. The shipments are heavy, and some classes of the iron are scarce.

The brass foundries are as busy as they can possibly be.

NEW BUSINESS VENTURES.

St. Louis, Mo.—The J. W. Garratt Brass Foundry Co. has been organized to manufacture brasses, brass castings, etc., with a capital of \$10,000. The incorporators are C. Erickson, F. Haggenjos, and Mrs. Belle Garratt.

Cleveland, Ohio.—The General Incandescent Lamp Co, has been formed to manufacture and deal in electrical machinery and electric lamps. Capital, \$50,-000. Incorporators are J. Insuil, F. H. Goff, T. H. Bushnell, S. H. Tolles, J. Mc-Gregor, Jr., all of Cleveland.

Jersey City, N. J.—Rockaway Electric Light & Improvement Co. has been formed with the principal office at 83 Montgomery street, to construct and operate gas and electric light works, Capital, \$15,000. Incorporators: Anthony Blum, Brooklyn, N. Y.; Kent K. Stearns, Jersey City; Isaac Blum, New York city.

Cleveland, Ohio.—Adam Welker, who has been connected with the E. W. Fisher Co. for the past six years, and Frank M. Luther, who has been with the same firm for the past eight years, have formed a partnership, and have been incorporated under the name of the Welker-Luther Co., at 335-339 Huron street, with a capital stock of \$50,000, to deal in plumbing, gas, steam and water supplies.

THE EXPORT TRADE.

The Gould Manufacturing Co., of New York City, have an order for several pumps to Warsaw, Poland.

The Deane Steam Pump Co. of Holyoke, Mass., last week shipped nine large steam pumps to Progreso, Mexico.

The Chapman Valve Manufacturing Co., of Indian Orchard, Mass., last week shipped some large water gate valves to Mexico.

Henry R. Worthington, of New York City, is about to make heavy shipments of steam pumps to Berlin, Germany, and Budapest, Hungary.

The A. A. Griffing Iron Co., of New York City, last week shipped 90 cases of Bundy separators and other heating apparatus to Antwerp, Belgium.

The Laidlaw-Dunn-Gordon Co., of Tweedale Works, Cincinnati, last week made an important consignment of steam pumps to Van Reitcholen & Houmens, of Rotterdam.

The Herendeen Manufacturing Co., of Geneva, N. Y., last week exported two carloads of heating apparatus to the Centralop Varninings Compagniet "Radiator," Christiania, Norway.

The National Tube Co., of McKeesport, Pa., last week exported 364 tons of wrought iron pipe to Copenhagen, 316 tons to Bombay and 180 tons to Honolulu. A small shipment of S-inch pipe was made to Palalamang, Sumatra.

The Buffalo Forge Co., of Buffalo, recently shipped a big ventilating apparatus to Ashwell & Nesbitt, Ltd., of Leicester, England. The company finds great difficulty in making delivery of foreign orders. The works are being enlarged, and are kept going both night and day.

The Rider-Ericsson Engine Co. of New York city, within the past two weeks exported the following improved hot air pumping engines: Two six-inch Rider engines, one to Havana and the other to Vigo, Spain; one six-inch Ericsson engine to Havana and one to Sydney, Australia; eight-inch engines of the same type to Matanzas, Cuba; Paris, and Progreso, Mexico, and a ten-inch engine to St. Petersburg.

Last week over 300 of Kenney flushometers, made by the Kenney Co., New York City, were forwarded to London, where they are quickly being adopted in the large hotels, public buildings and the like. Several are also being utilized by the great steamship companies. The White Star liners now under construction at Harland & Wolff's shipbuilding yards at Belfast will be entirely fitted out with them. Six hundred flushometers were exported within the last few days to Sydney, Melbourne and Victoria, Australia. These shipments are made through Henry W. Peabody & Co. The same number were dispatched to Cuba. One hundred were shipped to the City of Mexico, where nearly 2,000 are specified for by architects for installation in buildings now in course of erection there. China, Japan and Honolulu are ordering quite a number. The value of the shipments enumerated above amounts to \$37,500, and the company holds unexecuted orders for over \$150,000 worth more flushometers for foreign countries.

INTERNATIONAL ACETYLENE ASSOCIATION.

The annual meeting of the International Acetylene Association, held July 11 at the Great Northern Hotel, Chicago, was well attended and both sessions were intensely 'uteresting.

The scope of the association was extended to include, in addition to manufacturers of gas generators and carbide, manufacturers of burners and other acetylene supplies. Arrangement was also made to accommodate individual scientists, inventors, agents, salesmen and others interested in the development of acetylene illumination by providing an associate membership.

The "Acetylene Gas Journal" of Buffalo, N. Y., was made the official organ of the association.

A plan was perfected for the establishment of local "chapters" in which members are to meet socially at convenient locations, more or less frequently, and by TAPSANTARBANTAN SANTARBANTA

Write for Illustrated Circular

L. Wolff

Manufacturing Company

PLUMBING GOODS 34.56



Galvanized ** Range Boilers



We operate a complete and extensive plant for the manufacture of Range Boilers, Expansion Tanks, etc. We do our own GALVAN-IZING, make our own RIVETS, and do the drawing up work of the heads; our customers can therefore rely upon getting a first-class high grade Boiler. When buying Boilers

ASK for the "WOLFF" BOILER

It is the best made. We make these Bollers in all sizes from 18 to 192 gallons capacity; also Boilers with Galvanized Iron Steam Coils inside (horizontal and vertical), Boiler Hangers, Stands and Brackets MA

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CHICAGO

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conference and comparison forward the interests of the craft.

The following officers were elected for the current period:

President, Geo. Landis Wilson, representing F. Cortez Wilson & Co., Chicago.

Vice-President, W. T. Reynolds, of the Draper Manufacturing-& Gas Co., Dana, Ind.

Secretary-Treasurer, J. B. Carroll, of Chicago.

Directors, Henry W. Gazell, president of the Harris Manufacturing Co., Cleveland, Ohio; J. N. Goldbacker, of the Bournonville Acetylene Generator Co., New York City; Benj. Briscoe, president of the Detroit Galvanizing Works, Detroit, Mich.; Wm. Finkler representing the Niagara Falls Acetylene Gas Machine Co., Niagara Falls, N. Y.

The following were appointed chairmen of important committees:

Transportation—Henry Giessel, of H. Giessel & Co., Chicago.

Complaints—J. P. Holmes, of Holmes Acetylene Co., Chicago,

Insurance-J. M. Morehead, of Union Carbide Co., New York and Chicago.

The opinion was general that the business was on the eve of a very prosperous season, although the problems to be faced and overcome are such that establishments of small capital or meager experience are almost certain to meet disaster unless they feel their way very carefully.

Many topics of interest to the trade were discussed and those present were so enthusiastic that the executive committee were instructed to arrange, if possible, for a banquet and conference to take place some time in August.

With plenty of money in the treasury the International Acetylene Association looks forward to a useful and prosperous career.

This association was first formed in July, 1898, for the purpose of creating a central body to take up questions relating to the business of acetylene apparatus manufacture in a comprehensive manner, and at the same time effectually dispel the somewhat prevalent belief that it belongs as yet to the realm of theory and experiment, and give to this legitimate business a commercial standing in the minds of the public generally.

GAS AND ELECTRIC LIGHTING.

Lawrence, Mass.—Fowler Automatic Draft Regulator & Ventilator Co. has been organized with a capital of \$8,000. Incorporators: W. B. Fowler, W. Oswald, C. W. Currier.

St. Paul, Minn.—Acetylene Gas Apparatus Co. has been formed for the purpose of manufacturing acetylene gas generators, etc. The capital is \$20,000, and incorporators are J. H. Hanson, W. Stewart and H. S. Newlove.

Wheeling, W. Va.—The National Light, Heat and Power Co. has been incorporated, with a capital of \$500,000, to manufacture, generate, supply and sell electricity for light. The incorporators are J. Piedell, J. A. Miller, C. H. Copp, J. T. Adams, all of Wheeling; R. C. Dalsell, of Leatherwood.

New York City.—A new firm in this city is the United States Gas and Electric Improvement Co., of Mexico, formed for the purpose of building and equipping refrigerators, gas and electric lights, with a capital of \$5,000,000. The incorporators are H. H. Barnes, D. Barnes, H. Richmond, J. Barnes, E. Barnes, all of New York City.

CHICAGO TRADE.

The suit brought by the plumbers of the city to restrain the collection of the \$30 license fee required by ordinance and which was taken under advisement by Judge Gibbons two weeks ago, has been decided in favor of the plumbers, who will now be able to conduct their business: without paying a tax for the privilege. The court held that the city ordinance under which the \$30 license fee had been collected was in conflict with the state law, providing for the licensing of plumbers by a state examining board, and that the certificate of competency issued by the board entitles its holder to conduct the plumbing business in any part of Illinois.

In the decision just rendered it was cited that while the city had the right to issue a license and charge a nominal fee to defray the cost of its issuance, and also the cost of filing plumbers' bonds where it became necessary to open the street, it did not have the power to impose a fee of \$30 which could only then be regarded in the nature of a tax.

The right of the city was affirmed to receive from the master plumbers a reasonable fee for each permit issued to connect with the city water mains, and also to enforce the filing of a bond of a sufficient amount to protect the city from possible damage through defective or incompetent work in connecting with the main but no contention was raised over this point, it always having been customary for the city to charge for permits, and to require a bond for street openings.

It is needless to say the plumbers of the city are elated over the decision, as it relieves them of the payment of an exorbitant and illegal tax which they have been fighting for over a year.

It is also believed that the decision will have an important bearing in the case being conducted by the same attorneys for the recovery of money paid by plumbers in license fees from 1892 to the present time.

The first annual outing of the South Chicago master plumbers was held on Saturday, July 8. Taking the Whaleback to Milwaukee, where they spent several enjoyable hours, they then proceeded to St. Joseph, Mich., by the steamer Lawrence, arriving there on Sunday morning and returning to Chicago by boat Sunday evening. Included in the party were Messrs, Brunt, Smillie, Kennedy, Horn, Peterson, Fernkamp, O'Connor, Zimmerman and Melville.

The fact that their trip occupied almost two days speaks more eloquently than words the success which attended the first outing of the South Chicago plumbers.

William C. Seipp, a master plumber at 371 Twenty-second street, and a member of the Chicago Master Plumbers' Association, died on the 8th inst. The funeral took place on July 11 at Oakwood and was attended by a committee representing the association, consisting of W. P. Connell, W. A. Elchler, Chas. W. Alcock, and others. Mr. Seipp had been in business for several years and had been a member of the Master Plumbers' Association since June, 1896.

W. K. Homer, formerly in the plumbing business in Chicago, and who disappeared suddenly without giving any notice of his intention, some time ago, has turned up in Port Arthur, South Africa, where he is employed by the British government as plumbing inspector.

Geo. Park, the enterprising Chicago plumber who has a shop in Evanston, is building for himself a handsome residence in Glencoe to cost about \$6,000. Like most Chicago plumbers Mr. Park is interested in politics, and besides attending to his plumbing business finds time to serve as alderman in the Glencoe city council.

- J. V. Haney, 242 South Kedzie avenue, aside from patriotic sentiment, has cause to remember the Fourth of July. During the day thleves stole the brass work of six flats which he was finishing at Sixtleth street and Ingleside avenue, and forgot to leave their address. No trace of the culprits has been discovered.
- J. O. Sawkins, formerly at 120 East Twentieth street, has moved into an attractive shop at 1802 Wabash avenue. Mr. Sawkins speaks encouragingly of the change and expects to build up a fine jobbing trade at his new location.

Jacob Adler has the contract for the plumbing and gasfitting of the eight-story addition which the Western Electric Co. are building to their plant at Jefferson and Congress streets.

F. R. Scholefield, in connection with his shop at 310 South California avenue, has opened a branch shop at 130 South Clark street.

Jas. R. Scanian, of Elgin, was a trade visitor this week.

Danville, III.—Sealed proposals will be received at the office of the National Home for D. V. Soldiers, near Danville, until three o'clock p. m., Saturday, July 22, for furnishing materials, labor, etc., and putting in place complete heating and ventilating apparatus, plumbing apparatus and gas plping, electric lighting, etc., in barrack building No. 16, at the Danville branch of the National Home for D. V. Soldiers,

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of our Ideal Boilers is that they can be erected so easily and in so brief a time. This is because our goods are made with such care that they assemble perfectly.

The labor saved in their erection often amounts to more than the difference we ask for our goods. To save time is to lengthen life and increase the opportunities for installing Ideal Boilers.

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MINNEAPOLIS, 513 Guaranty Loan Building
DENVER, 3831 15th Street



ASSOCIATION NEWS.

Election of Officers.

At the annual meeting of the Chicago Master Steamfitters' Association, held Thursday, July 13, the following officers were elected: President, N. C. Darrow; vice-president, T. J. Douglass; secretary, E. M. Craig; treasurer, R. Schweitzer, business manager; E. M. Craig; guard, W. C. Hill; trustees, Thos. F. Hanley, Wm. Sullivan, Chas. H. Graves.

Plumbers Organized.

A branch of the New York Master Plumbers' Association has been organized in Jamaica, Long Island. There are now thirty-eight names on the roll of membership and following are the officers: President, George O'Connor, Astoria; vice president, George W. Parry, Jamaica; secretary, John W. Petry, Long Island City; treasurer, John Anderson, Flushing; sergeant-at-arms, Thomas Freeman, Long Island City.

Plumbers Elect Officers.

The Master Plumbers' Association of Canada held its annual meeting at Ottawa, Ont., July I, and the following officers were elected: President, W. J. Harris, Montreal; vice-president, Mr. Mansell, Toronto; secretary, P. C. Ogilvie, Montreal; trensurer, W. H. Meredith, Toronto. The next annual meeting will be in Montreal.

Strikers Checked by Court.

Justice Truax, in the supreme court in New York, on July 8, handed down a decision which places labor strikes under the interdiction of the law, whenever they amount to a combination or conspiracy to prevent any person from earning his livelihood in his profession, craft or business, The case was an action for a permanent injunction brought by the National Protective Association of Steam Fitters and Helpers and Charles McQueed, against the Enterprise Association and the Progress Association, both unincorporated societies of steam fitters and helpers, and their walking delegates. Justice Truax's decision permanently restrains the defendants from interfering with the members of the plaintiff association, or preventing them from procuring and retaining work. The gist of the plaintiff's case was that the defendant associations and

their walking delegates had combined to prevent the members of the National Protective Association from obtaining work, and that by threats of a strike on buildings at Nos. 59 and 61 West Forty-fifth street, at Twelfth street and Seventh avenue, and at Front street and Bowling slip, they had intimidated the contractors for these buildings, so that the contractors had discharged members of the plaintiff association employed there. The defendant denied the allegations.

Justice Trunx, in his decision, said: "The evidence shows that the defendants have entered into a combination which in effect prevents and will prevent the plaintiff McQueed and the other members of the plaintiff association from working at his and their trade in the city of New York. In fact, it was shown that the defendant Cummings (one of the walking delegates of the defendants) threatened a strike against the members of the plaintiff association, and the plaintiff Mc-Queed wherever he found them at work, and that he would not allow them to work at any job in the city, except some small jobs where Enterprise men were not employed. Such a combination amounts to a conspiracy, and is unlawful. To prevent one from working at any job in this city, except some small jobs where Enterprise men were not employed, is to prevent him from earning his livelihood in his profession, craft or business, and such an act will be enjoined. The injunction heretofore granted is continued."

Picnic a Success.

The Des Moines Master Plumbers' Association held their annual picnic on Saturday, July 1, and it was a great success. It was a beautiful day and between 200 and 300 people left in three special street cars on the Valley Junction line at 0 a, m. to take them to the grounds, where everybody enjoyed themselves highly in the cool shade of the fine trees along Walnut creek. This was not a public picnic, but simply for the master plumbers, journeymen, and traveling salesmen, with their families, and invited friends.

The commissary was complete on the arrival of guests on the grounds, the committee having made all arrangements complete long before their arrival. Everything was free, no charge for anything. The following contributed to the general fund: Des Moines Master Plumbers' Association, American Radiator Co., Farnan Brass Works and the Des Moines Water Works Co. The following contributed to the prizes: Des Moines Master Plumbers' Association; Local Union Journeymen No. 33; Mr. Kirkwood and wife, of L. M. Rumsey Manufacturing Co.; Mr. Gifford, of Western Brass Manufacturing Co.; and Mr. Cary, of the American Radiator Co. The following traveling men were represented: Mr. Kirkwood and wife, of L. M. Rumsey Manufacturing Co.; Mr. Gifford and wife, of Western Brass Manufacturing Co.; Mr. Page and wife, of Jno. Davis Co.; Mr. Cary, of American Radiator Co.; Mr. Robinson, of Illinois Malleable Iron Co. Letters of regret were read from those unable to attend. The last part of the entertainment wound up by sandwiches, pickles, coffee, cake and ice cream, being served by the gentlemen on the lawn to the entire crowd. Everybody enjoyed themselves, the ladies being particularly well taken care of. A salute of thirteen guns was fired on the opening and closing of the day's sport. Nothing happened to mar the happy occasion.

The program was as follows:

Base ball between traveling men and journeymen and master plumbers. Prize \$25. Score, 6 to 3 in favor of the master plumbers.

Tug of war between journeymen and masters. Prize, 1 box of cigars, won by the journeymen.

50 yard race for helpers, won by Mc-Alister. Prize, 14-inch Stilson wrench.

50 yard race for married ladies, Won by Boehler, Ryan and Loux. Prizes, platter, bottle cologne and platter.

50 yard race, single ladies. Won by Linnane, Wonderlin and Smith. Prizes, cologne, platter and cologne.

75 yard race for laborers. Won by Buckman. Prize, shovel.

30 yard running race for ladies. Freefor-all. Won by Allen, Linnane, Linmane and Allen. Prizes, platter, platter, cologne, cologne.

100 yard race for journeymen. Won by Gustave. Ivory rule. 30 yard hop race for laborers. Won by Buckman. Prize, spade.

50 yard backward race for jobbers. Won by Freezor, Prize, nickel-plated patent wrench.

Sack race for traveling men. Wen by Kirkwood. Prize, umbrella.

Sack race for master plumbers. Won by Walker. Prize, umbrella.

50 yard race for master plumbers, Won by Walker. Prize, cane.

Potato race free for all. Won by Cochran, Prize, patent wrench.

Running broad jump free for all. Won by Freezor. Price, pocket knife. 15 feet 9% inches.

Running high jump, free for all. Won by Fred Miller. Prize, pocket knife.

Baby rack contest for ladies. Won by Boehler, Kubec and Rosene. Prizes, cup and saucer, vase and platter.

Guessing contest for ladies. Won by Linnane, Gifford, Kurtz and Linnane, Prizes, pin cushion, platter, cologne and cologne.

Quoit pitching for steam fitters. Won by Holland. Prize, 14 inch Stilson wrench.

50 yard three-legged race, free for all. Won by Smith and Gordon, Cochrane and Freezor. Price, 2 foot rule and tape line,

Bear race for jobbers and helpers. Won by Freezor. Prize, nickel-plated combination pliers.

Blind baby frunt for ladies. Won by Fletcher, Brosnehan and Wallace. Prize, vase, cologne, and platter.

30 yard race for girls. Allen, Walker, Linnane. Prize candy, candy and candy. 30 yard race for boys. Won by Walker and Given. Prize ball and ball.

30 yard race for children. Won by Shepard, Cox and Walker. Prize, candy, doll and doll.

Youngest master plumbers' wife. Won by Mrs. George Walker. Prize, whisk broom holder.

The lady with the best baby boy or

UNEEDA HEETA. The above cabalistic words probably indicate the condition of most steam fitters at the present time. They are Filipino-like in looks, but decidedly American in pronunciation. At all events, the wise man will take our advice and buy a "WINCHESTER" for either steam or water contracts, Smith & Thayer Company, Boston, Mass.

girl. The judges were unable to decide, and awarded each one a prize. Kubec, O'Neil, Kurtz, Linnane, VanDyke, Mc-Namara, Spitznagle, Boehler. Prizes, tooth brush, whisk broom holder, sponge holder, tumbler holder, tumbler holder, whisk broom holder, vase, fancy match safe.

For the best cook, Won by Mrs. Whatton. Prize, bath room tollet fixture.

The following were abandoned on account of darkness: Fat man's race, mile walk, foot ball and egg race. The cake walk was won by daughter of Mr. and Mrs. Wm. Rosene.

BUSINESS CHANGES.

Saginaw, Mich.—R. Weston, who has been located in this city for ten years, is moving to Detroit, where he expects to go into business.

Inspector Acquitted.

The board of health of Quincy, Mass., which has been considering the charges preferred against Plumbing Inspector Jeremiah J. Keniley, came to a decision and voted to acquit the accused official.



CHICAGO STORES: 23-24 West Randolph Street, NEW YORK STORES, 30-41 Cortland Street,

THE TRADE'S WANTS.

WANTED-PLUMBING SUPPLY SALESMAN for Western New York and Pennsylvania, Apply with reference to The E. W. Fisher Co., Cleveland, Ghio.

SIX INCH PIPE MACHINE WANTED. Hignail and Keeler make preferred. State condition, price and make. Address." Fipe Machine," care Iron Age, 5ra Commercial Bidg., St. Louis.

WANTED-TO CORRESPOND WITH RELI able salesman calling on the Plumbing and Heating trades, that can handle a side line to advan tage. Reference required. Address the Gumbo Cement Co., 161 Lake Street, Chicago, Ill. 7-15.

WANTED—AN EXPERIENCED TRAVELING Salesman to travel Ohio and Indiana, to sell Plumbing and Steam Goods, also Manufacturers' and Mill Supplies. Must be a good experienced man, who has traveled that territory before, also give reference and salary. Address, "150" care of "Domestic Engineering," 40 Dearborn St., Chicago. 7-15.

FOR SALE-SECOND-HAND PEERLESS PIFE
Threading and Cutting Machines, with adjustable expanding dies for % to3 inch pipe. In excelleat condition, as must follow from being overhauled
in the shop where it was originally built. Bignail & Keeler Mig. Co., Edwardsville, Ill.

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Dearborn street, Chicago, will rent a portion of their beautiful light office, upon application. This is the centre of the heating and plumbing trade, and is in a building provided with first class freight and passenger elevator service, and the space can be had for moderate rental.

RECEIVER'S SALE:—BY ORDER OF THE Supreme Court I am directed to sell the property of THE MITCHELL HEATER CO., of Poughkeepsie, N. V. The property to be sold includes the patterns, flasks, and machiners for making high-grade not water and steam heaters, including letters patent, together with the stock of heaters on hand. Also a fully equiped machine shop and foundry for general work. For further information relating to the property. Address, Chas. F. Cossum, Receiver, 35 Market St., Poughkeepsie, N. Y. 729.

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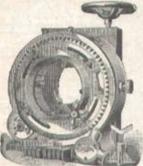
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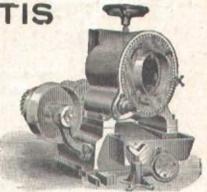
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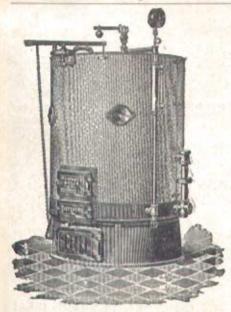
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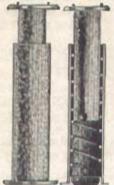
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Adjustable Expansion Insulator

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WITH FLOOR AND CEILING PLATES COMBINED.

THE SPIRAL SPRING forms the screw for adjusting and compensates for any strain and holds the flanges in close contact with ceiling and floor. Made for ¾ to 6 inch pipe. Recommended by architects, endorsed by insurance men, used by steam fitters. GET PRICES.

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DAYTON, OHIO.





"The first result of the Austin Separator was simply remarkable Not a particle of oil."

(Extract from remarks by Mr. Voges, president of the Springfield Coal and Ice Co. of Springfield, O., at Indianapolis National Convention of Ice Manufacturers, March 14, 1899.)

Where exhaust steam is used for heating or other purposes, an Oil Separator is almost a necessity. We send the Austin Separators on trial for 30 days.

Notwithstanding the very large patronage from plumbers and steam fitters enjoyed by the Austin, they have never in one instance failed to give complete satisfaction.

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Manufacturers Permanent Plumbing Goods



Patented April 30, 1895 and February 14, 1899.

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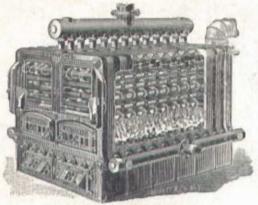
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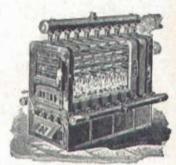
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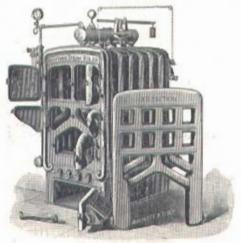
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We have made and sold this Furnace since 18/18, and while many improvements have from time to time been added, It is practically the same as when first introduced. The many thousands that are daily in use attest to its popularity and effectiveness, and although it has been imitated its sale steadily increases. It is sale, quick and reliable and the best device of its kind on the market.

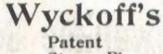
We have lately perfected an oblong shield and solder pot especially for electric incomen's use.

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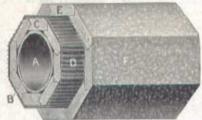
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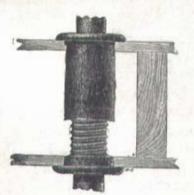
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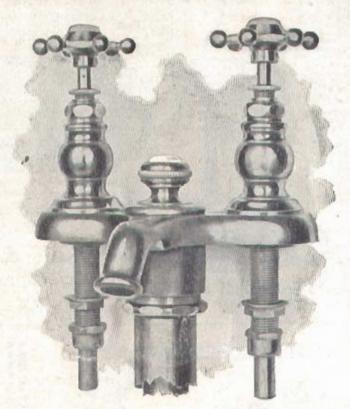
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ARIES PLATE B 302.

This beautiful self-closing work is finished as if our reputation depended upon it,—it does, too—and can be furnished all brass finished or nickel-plated, or with engraved pearl tops. It is priced and illustrated in our new catalogue B, which you can have for asking. It shows a lot of other good things too. Our Goods at Jobbers.

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SIZES:

2-inch to 12-inch Standard, 2-inch to 12-inch Extra Heavy;

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CAPACITY 50 TONS PER DAY.

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Safest Investment-Largest Dividends.

A portion of the full paid and non-assessable capital stock of the Boston & Texas Copper Company is offered for sale at five dollars per share (par \$10 for treasury purposes), and is recommended as a safe and highly promising investment.

The company controls twelve thousand acres of rich copper land in North Texas which is also valuable for farming and town site purposes. The tract is some 10 miles long and about three miles wide. It is equivalent in size to five hundred ordinary mining claims.

The property has been developed sufficiently to begin producing at once, large amounts of the richest copper ore (40 to 70 per cent.) taken out and marketed, and inexhaustible quantities of copper mari and clay running from 3 to 15 per cent copper found. (Calumet and Hecla and other great dividend payers are working on 1 to 3 per cent. ore.)

The property is within 12 miles of a railroad and fuel and water are available. The ores and marl are on the surface and a few feet down, and can be mined and converted into copper cheaper than any other deposits in America. Copper will be produced on the ground and a plant of moderate cost will treat 300 to 500 tons of ore and material per day, and according to engineers' estimates earn \$3,000 to \$5,000 per day net, with copper at 15 cts. per pound. It is now 18 cts, per pound.

The property has a historical reputation and a record in the state geological reports. It has been examined and reported upon by the highest engineering, geological and expert authorities, and its merit and value are established beyond all question. It is not an experiment, nor its value speculative, they are proven and demonstrated,

From Report of Prof. Wm. De Ryee, former State Chemist of Texas.

"Such numerous outcrops of copper ore have been traced over the summit and sides of these hills that out of 12,000 acres of land which the company own, hardly a 160 acre tract should be found without ore upon the surface.

A cross-cut to the depth of 15 feet was made upon the Isbell lead, and ten hours' work resulted in the raising of 6,000 lbs. of rich copper ore, averaging about 60 per cent. of copper. (Worth \$360, net.)

It is easily smelted and the strata in which it is found can also be more economically excavated than other in which copper ores occur."

From Report of Prof. W. F. Cummins, former Geologist of Texas.

"In order that I might see the condition of this lode after this amount of work had been done, I employed a few hands and cleaned out the tunnels when I found a lode of copper. This is the disulphate of copper and will yield as high as 70 per cent. of copper. I drove the tunnel twenty feet further into the hill, following the lode. When I had gone about twelve feet I struck another lode of copper eighteen inches east and six inches below the second lode. In three feet more we struck another lode below the second lode. Immediately below the lower sandstone is a stratum of cupriferous marl schists extending the entire width of the tunnel, say four feet, and is probably much wider. This marl will yield about 15 per cent. of copper."

From Report of Prof. Gustave Westman, Mining Engineer.

"I beg to express my entire satisfaction with and confidence in the report made by Prof. W. F. Cummins.

I only had to remove one foot of earth from the surface on the three spots already mentioned in order to find large deposits bedded into the clay. After washing, this clay was found to contain 15 per cent of copper ore of same value as above. These ores could of course be taken out and made available at a relatively small expense.

The cupriferous marl situated below the sandstone, containing 15 per cent. of copper, can be estimated worth at the place at least \$10 per ton, net."

From Report of George F. Rendall, Mining Engineer.

"It is a self-evident fact deducible from every report that on this property large bodies of copper ore exists and that hundreds of tons have been shipped of high grade ore.

That a deposit of this nature can at a very small expense be made to yield handsome profits, from all existing reports, appears not only likely but certain."

From Report of Francis Arthur Reall, Superintendent.

"This property is all right and there is all the copper you want here. I think it is the best in Texas and it seems to have been selected as such for copper. It is near the top of a water shed and the hills crop out here. I think there is oil here because there is coal. Oil has been found at Corsicana. The property is adapted to general farming purposes which seems to be very profitable here and a town could be laid out on it and a railroad built to Dundee, 12 miles, to great advantage."

The Great Boom in Copper Shares.

Copper mining has proved the safest and most profitable industry in America, and the largest and most conservative capitalists in the world have recently become large investors in copper stocks.

This company can produce copper as cheaply as any in the world. It is capitalized the lowest of any in proportion to its acreage, and at the price of copperbearing land in Michigan (\$400 per acre) containing a much less per cent, of copper, has a large value in excess of its low capitalization (\$2,500,000.)

Receipts for ore and assays by the leading chemists and assayers in the country are on file in the company's offices,

The officers and directors of the company are men of the highest standing and business capacity, and include:

Hon. Emery M. Low, manufacturer, mayor of Brockton, Mass., President.

George W. Russell, Esq., paper manufacturer Boston, Vice-President, Maj. F. M. Spaulding, 2d Vice-President.

Col. Edward B. Robins, Boston, Treasurer.

Col. James M. Wheaton, Boston, Secretary.

Hon. Jas. W. Bennett, Ex-President Erle Telephone Co.

Only a limited amount of the stock will be sold at the price of \$5.00 per share and those wishing to secure shares should act at once. As stated the stock is full paid and non-assessable. As soon as this allottment is sold the price will be advanced.

Amount of land, quantity and quality of ore, cheapness of mining and treatment, pearness to transportation, favorable climate for continuous work the year around, the increasing demand and profit in producing copper considered, the Boston and Texas Copper Company possesses unequaled advantages and affords the best kind of an investment. It can easily earn 50 per cent per year on the price at which the stock is here offered.

Stock may be ordered through your banker or broker, or direct as below.

From Report of T. Burton Everett, Mining Engineer and Expert.

Archer City, Tex., May 3, 1899.

Hon. Emery H. Low, President, and others, Boston, Mass.; * * Gentlemen;

—There is abundant evidence of rich copper deposits, not only at the mines already opened, but at various other parts of the p.operty, and it is my opinion that this will prove to be one of the exceptionally rich copper-bearing fields of the United States.

* The ores found in these deposits are immensely rich in copper values and the cuperiferous clays that are also found here in immense beds, while not as rich, will undoubtedly prove of great value on account of the cheapness with which they can be mined and reduced.

The mines are accessible to every point; the cost of mining will be very small, as the ore is not in hard formation; and there is no deep work. I have examined the various reports made by others, and confirm them.

* As far as I have been able to investigate, and I have done so carefully. I am of the opinion it is one of the richest copper fields in the country.

> Very respectfully yours, T. Burton Everett, M. E.

Mr. G. H. Savage, Mine Examiner of Butte, Mont., after gaining sample of ore from the property, says: "The ore is the richest in the country. If you have the field you can pay \$1,000,000 dividends per year."

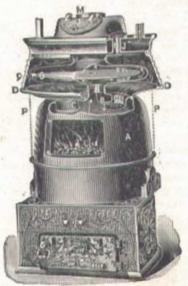
Major F. M. Spaulding, of Boston, and C. F. Crosby, Esq., of Lowell, Mass., who returned June 16th from an examination of the property on behalf of the company's stockholders and intending investors, report that they found the property as represented and confirm the expert reports. They visited and examined the nine mines and explored the entire property.

The Company is thoroughly organized with substantial business men in the management. It has such extensive acreage of land, rich in copper, and so easily and cheaply mined and converted, that dividends can be earned and paid during the current year. Now is the time to make a safe and profitable investment, and those who take advantage of this opportunity to buy stock at the low price offered will reap the benefit.

Remit by P. O. Order, Registered Letter, Check or Express to Edward B. Robins, Treasurer, Tremont Building, Boston, Mass. Price \$5.00 per share, subject to advance.

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Hub Water Heater

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Ease of Setting.

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More points of merit in style, staying qualities and action than any others.

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We have already received many compliments from the tradewhere they have been introduced.

Catalogue C.

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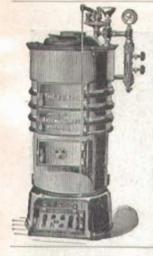
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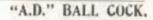
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They can be made T Handle, Lever Handle or worked with a Rod without any trouble. MADE TO WEAR, and will save all annoyance. Order through your Jobber,

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...ARE ...

The Largest Exclusive Manufacturers in the World of

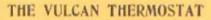
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Simple, Inexpensive, Easily attached, Can be connected to a Coal Range, No Valuable Space is wasted, as it is placed directly under the boiler between the arms of the stand.



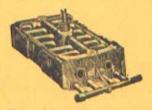
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Foundry at Peekskill, New York.

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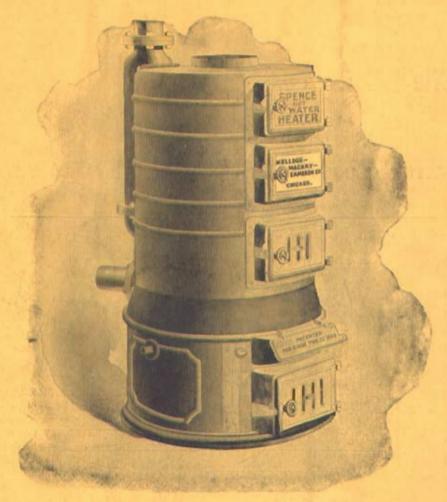


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