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Extra length barrels
STEVEN'S POCKET RIFLES,
 10 in. barrel, 22 and
 12 " " " "
 15 " " " "
 18 " " " "
 Hunter's Pet, with nickel

"COLTS" New Metallic Cartridge
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All the above load from re
 "COLTS" Old Model Powder and-b

BLUE JACKET AND XL
 "REMINGTON'S" Powder and-bal
 Metallic Cartrid
 New Navy Size

ADAMS and other English Revolve
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Also, N

Case Contains		RIM FIRE
10 M.	32	
10	22 long	
5	25	
5	30	
5	32 short	
5	32 long	
2	32 extra long	
5	38 short	
3	38 long	
2	38 extra long	
3	41	
2	44 short	
2	44 long	
2	44 Colt and Winche	
2	44 Henry	
2	44 pointed	
1	44 Howard long	
1	44 extra long	
2	46 pistol	
2	46 rifle	
1	46 extra long	
1008	56-46 Spencer Spo	
1008	56-50 " Car	
1008	56-52 " Rif	
1008	56-56 " Car	



will be shown in the margin of the 1st
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Genuine Dobby (Crack) M. 2AHD PER 100.

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HAY AND GRAIN RAKES.

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Improved Double Coat R

Double Coat S

Treble

Ticklers,

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Discount

GRASS SCYTHES

Winsted Clipper,

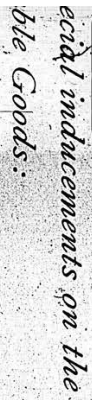
Crown Jewel,

Diamond Clipper,

Golden Clipper,

Winsted Clip

Philadelphia, March 1st, 1879



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1.2411 PER 100.



100 805 PER GRO.

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FULL LINE OF

HOES, ^{and} RAKES,
AS WELL AS

RAISES.

SCYTHE RIFLES.

Improved Double Coat Rifles, 6.25 PER GRO.

Double Coat Sharpeners,	7.38	"
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Treble	"	"	8.50	"
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Ticklers,	10.00	"
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$\frac{1}{2}$ Gro. in a box.

Discount,

per cent.

GRASS SCYTHES.

Winsted Clipper,

PER DOZ.

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Diamond Clipper,

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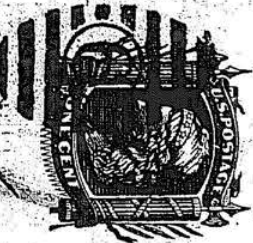
Should you be in want of any goods in our line send for our illustrated catalogue. We know we can suit you in quality, and our prices are marked at bottom figures.

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Un-Machined White Cops, (all new),	-	7¼	ots.
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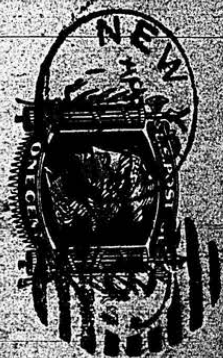
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By using my Pyramid Metallic
Paint on the Prepared Roofing,
you can have your roof a beautiful
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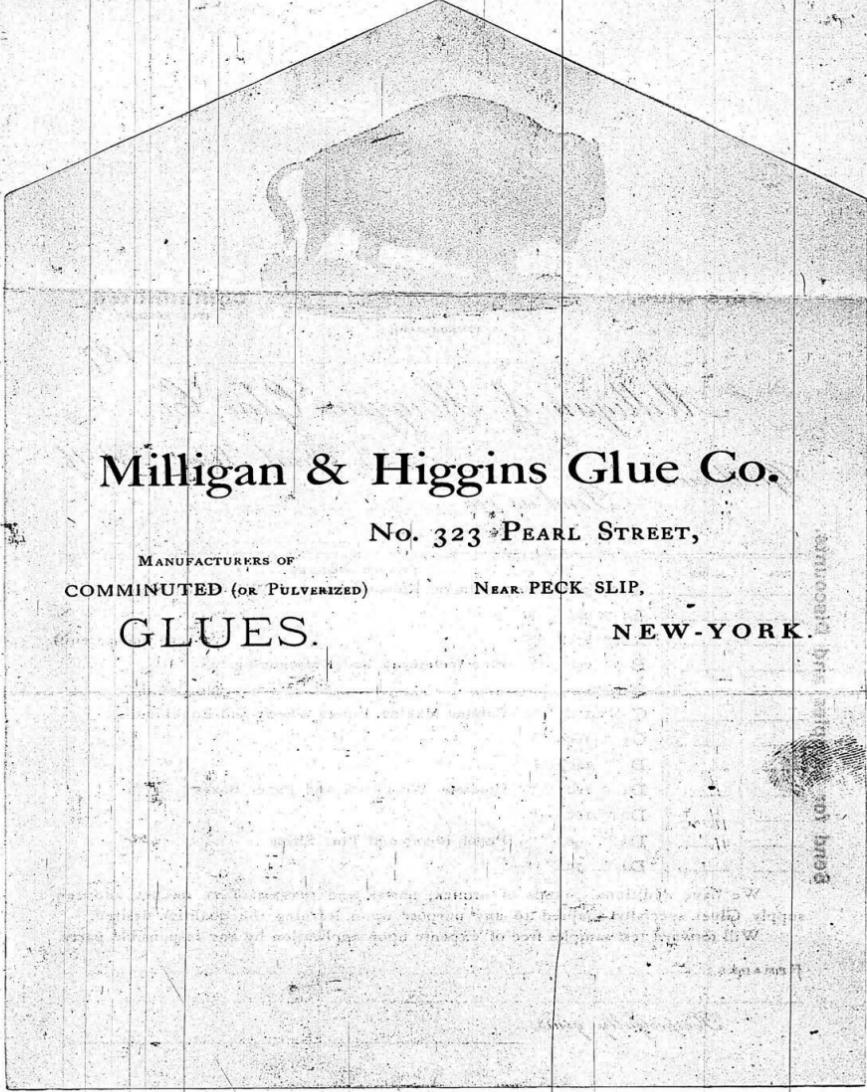
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A @ 33c.—For Millinery, Kalsomining, and Wall-Paper Sizing.

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We have additional brands of HIGHER, LOWER and INTERMEDIATE GRADES, and can supply Glues specially adapted to any purpose upon learning the qualities desired. Will forward test samples free of expense upon application by any responsible party.

REMARKS:

Respectfully yours,

To Machinists and Metal Workers.

We submit with this circular a Phototype illustration of a machine, showing its applicability to such style of work.

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Phototype Department,

832-834 ARCH STREET,
Philadelphia.

CIRCULAR.

Mc

We enclose herewith a specimen of ~~iron~~ steel cut by one of our Celebrated Celluloid Emery Wheels only one-sixteenth (1-16) of an inch thick, by ten (10) inches diameter, revolving two thousand two hundred times per minute, and we expect to make them as thin as 1-32d of an inch.

Our ten by one-sixteenth wheel cuts into a file a distance of three inches in the space of four minutes, without showing the slightest traces of wear. The sides never vary, always remaining the same thickness. Our wheels are the **STRONGEST, THINNEST, and keep the BEST CORNER** of any wheel in the Market.

The price of all wheels under one-eighth (1-8th) of an inch in thickness is the same as one-eighth wheels. While we kept in stock wheels 1-16th, 1-8th, 3-16th and 1-4th of an inch thick, by from 3-4ths of an inch to sixteen inches diameter, we manufacture, upon four weeks' notice, wheels of any thickness from 1-32d of an inch upwards, for cutting any kind of steel, iron or brass, and will carry stock for any of our customers who use enough wheels to warrant it, upon being informed of the kind regularly required.

We always keep in stock two grades—a hard and a soft—of all the sizes of coarse wheels, referred to in price list, for cleaning of spruing castings. The hard wheel is adapted especially for coarse, rough work, and is the most durable. The soft wheel is more free cutting, suitable for small castings in either iron or brass, or for surface grinding. Among other wheels kept in stock are the following: for grinding saws (from 3-4ths of an inch to 14 inches diameter); for moulding cutters (1-16th, 1-8th, 1-4th, or 1-2 inch thick by from 3-4ths to 14 inches diameter); for milling tools or cutters (from 3-4ths of an inch to 10 inches in diameter); any thickness on price list.

We have made many improvements in the **SOLID CELLULOID EMERY WHEELS**, and know we have the safest and strongest Emery Wheel in the world—one that will carry the best and squarest corner, and are making, and have in use, wheels from 1-32d by six inches, and 1-16th by 10 inches, and 1-8th by 16 inches in Diameter.

We have a combination by which we can make the wheels hard or soft—the soft being free-cutting and not heating, and the hard being like iron, very durable and wearing a long time, but not so free cutting, and heating more. We can make a wheel to suit any kind of work. We do not claim that we can get the wheel right the first time in every case, different speeds making the wheels cut and wear different, Surface Grinding or Broad Wheels requiring a softer combination than a thin wheel or one for sprues. In all cases it is best to write what the wheels are to be used for and at what speed the arbor runs.

If the wheels you have had, or may have, are not satisfactory, by informing us where the trouble is, we can rectify the difficulty in the next wheel.

We have the cheapest and best wheels—and a number of wheels, ordered at one time, command special discount on prices, for we can manufacture and forward a number of wheels at less expense, proportionately, than a single one. they are ready to use, saving expressage and freight, and improve with age.

If those using a large number of wheels in a year will inform us as to the amount, kind and size of wheel used, we will give special optimum cash prices, or discount.

The prices of all sizes of wheels can be reduced and varied by using Iron Centres, the larger the centre the cheaper the wheel.

Parties ordering wheels will please give the diameter and thickness of each wheel and size of hole, and describe the shape of face, and the exact work for which wheels are used, whether for edge work or large or small castings. Give all the particulars you can. Also state how you want them sent, by express or freight, and by what line.

We can forward goods by freight from Newark, at same rate as from N. Y., as follows:

At Pennsylvania Depot via Star Union Line, National Line and all points on Penn. R. R.

At New Jersey Central Depot, via Empire Line and all points on New Jersey Central R. R.

At Erie Depot for Erie and North Shore Line, Great Western Despatch Line, South Shore Line and all points on Erie R. R.

At Delaware, Lackawanna and Western R. R. Depot for all points on their lines.

All goods boxed and marked grindstones and shipped at Fourth Class rates.

The New Jersey Central and Pennsylvania R. R. Depot are most convenient to our factory.

The New Jersey Express bill direct to Philadelphia, Chicago, Cincinnati and St. Louis, one charge; any other point, two charges. The Delaware and Lackawanna Express bill are one charge wherever they have offices on their lines.

We will deliver all goods at the depot of any of these lines free.

Hoping you will favor us with any orders in our line, we remain,

Yours respectfully,

CELLULOID EMERY WHEEL CO.,

228 Market Street, Newark, N. J.

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SEWING MACHINES,

TYPE WRITERS,



FULL LINE

Shot Guns, Rifles, Revolvers, Ammunition, &c.,

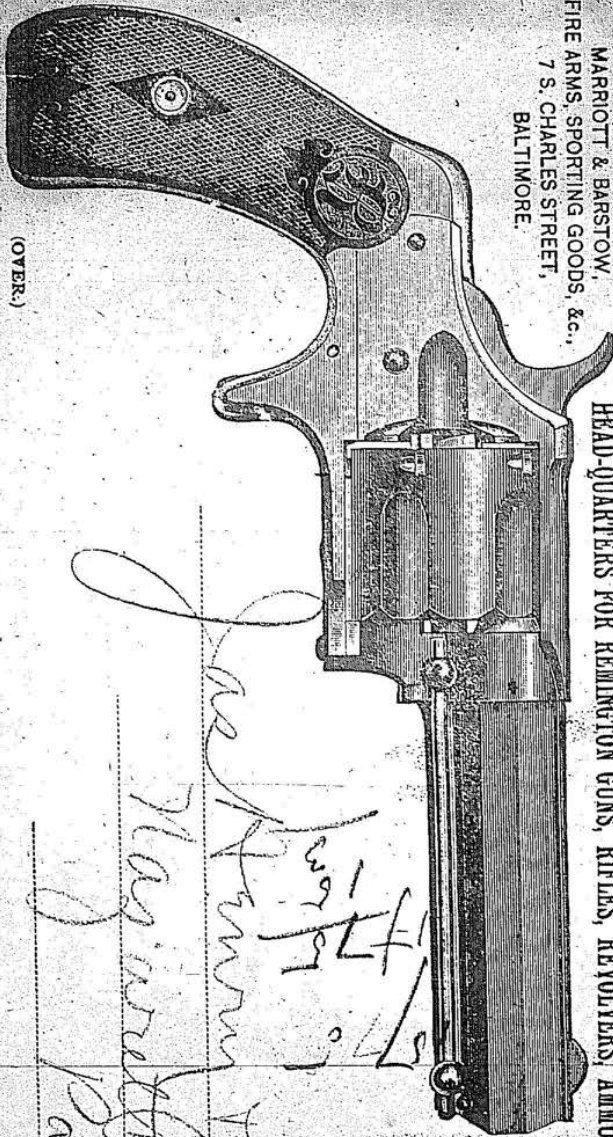
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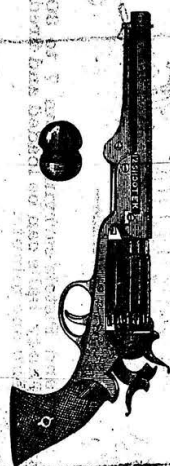
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SMITH & WESSON'S, PERCUSSION CAPS, &c.

267 BROADWAY, near Chambers St.

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WHERE MAY BE FOUND THE NEWEST AND MOST PERFECT STYLES OF FIRE

ARMED AND THE NEWEST AND MOST PERFECT STYLES OF FIRE

WALSH FIRE-ARMS CO. new 10 Shot Revolver, 80 balls to the lb.

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PROTECTION SIX-SHOOTER, imitation Colt's new model.

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COLT'S, new and old.

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WESSON'S new Breech Loading Repetier, 4 ounces.

Genuine Derringers, at Trade Prices.

A new Cartridge Pistol, 80 balls to the lb., superior to the other styles.

Also, sole Agent for the United States for the Volcanic Repeating Rifles and Pistols, Wesson's new breech-loading Rifles and Pistols, American G. D., G. T., U. S., Hat and Water-proof Percussion Caps, with a full and complete assortment of Single and Double-barrel Guns, Rifles and Pistols, of the most approved manufacture; Bowie Knives, Drinking Cups, Powder Flasks, Shot Bags, Sporting Powder of the best quality, &c., &c.

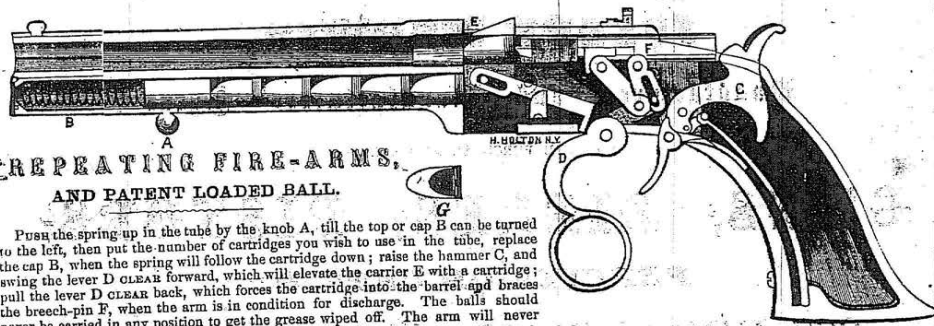
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Volcanic Repeating Fire-Arms

Rifles and Pistols carrying from 7 to 30 Balls. Thirty Balls can be loaded and fired in less than one minute.



REPEATING FIRE-ARMS, AND PATENT LOADED BALL.

Push the spring up in the tube by the knob A, till the top or cap B can be turned to the left, then put the number of cartridges you wish to use in the tube, replace the cap B, when the spring will follow the cartridge down; raise the hammer C, and swing the lever D clear forward, which will elevate the carrier E with a cartridge; pull the lever D clear back, which forces the cartridge into the barrel and braces the breech-pin F, when the arm is in condition for discharge. The balls should never be carried in any position to get the grease wiped off. The arm will never miss fire if these directions are observed.

JOSEPH MERWIN,

267 BROADWAY, NEW YORK, Sole Agent.

The rapidity of execution of this Arm places it beyond all competition. The thirty-shooter can be loaded and fired in less than one minute—a quickness and force of execution which is as much superior to the best revolvers as they are to the old muzzle-loading single shooters.

The Ammunition is water-proof, hence it can be used in any weather, or loaded and hung up for months, or laid under water, and then fired with certainty.

Its safety from accidental discharge is a great consideration in its favor; for, while the magazine (a tube running the whole length of the barrel) may be filled with balls, and thus the gun, in fact, be loaded from breech to muzzle, it is yet impossible, from any carelessness in handling, to discharge it. Its construction is simple and its workmanship most perfect, hence it is not easily got out of repair.

Its proportions are light, elegant, and compact, and the barrels are all rifled with great exactness. It requires no cap nor priming, no bullet-mould nor powder-flask. The powder and cap is contained in a loaded "minnie" ball of the best form and proportions, and is as sure as the best percussion caps.

It shoots with accuracy and greater force than any other arm can with double the powder used in this. Directions for use accompany each arm. Balls are packed in tin cases, 200 each.

After this date, the price will be as follows, viz.:

No. 1, 4-inch Pocket Pistol,	\$12 00,	Plated and Engraved, \$13 50,	Carrying 6 Balls.
No. 1, 6 " for Target Practice,	13 50,	" " " " " " " "	" " " " " " " "
No. 2, 6 " Navy Pistol,	18 00,	" " " " " " " "	" " " " " " " "
No. 2, 8 " " " " " " "	18 00,	" " " " " " " "	" " " " " " " "
No. 2, 16 " Carbine,	30 00,	" " " " " " " "	" " " " " " " "
No. 2, 20 " " " " " " "	35 00,	" " " " " " " "	" " " " " " " "
No. 2, 24 " " " " " " "	40 00,	" " " " " " " "	" " " " " " " "

AMMUNITION.

No. 1 Balls, 130 to the Pound, \$10 per Thousand.

No. 2 Balls, 66 to the Pound, \$12 per Thousand.

No. 1 Arms require No. 1 Balls.

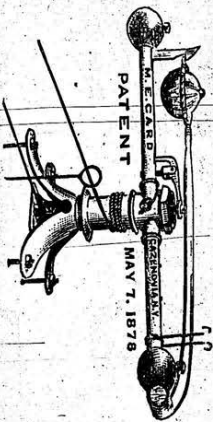
No. 2 Arms require No. 2 Balls.)

▲ Liberal discount to the trade. Your orders are respectfully solicited.

(TURN OVER.)

CARD'S PATENT

Rotating Glass Ball Trap.



THE BEST MADE.

Being all metal it is the most durable and it is also the easiest manipulated of any Trap ever offered to the public.

One Trap Equal to all the Others in Direction and Elevation.

Sleeve on Standard has bearing nearly four inches in length, nicely fitted. Is rotated by a cord on Sleeve, and when pulled the ball is thrown in a direction that is impossible for any one to foresee, thus resembling the flight of a startled bird. No screen is needed and no percentage can be given to the shooter by the puller, or attendant, as in traps made to throw in a particular direction, at the option of puller, or that are set to the right and left by attendant behind a screen. Just the thing for Amateurs desirous of becoming good wing shots.

DIRECTIONS.

Screw Pulley on plank, of other suitable foundation, and bolt standards over it as in cut. Drive Guide, so as to clear flange, down to mark on same. Pass a three-sixteenth cord through the Guide and fasten to arm near T. Pass another under Pulley and fasten to Draw Rod inside of standard. To operate Trap give the end of cord a few turns on Drum by turning Arms. By pulling the same a rotary motion, either slow or fast, may be given to the Trap. The momentum of revolving arms will wind it up in the opposite way, when it is again ready for pulling. At the word READY the Trap is set in motion and spring at the word pull. If Stationary Trap is wanted, tighten Thumb Screw. To oil remove Thumb Screw.

PRICE, \$10.00.

LIBERAL DISCOUNT TO THE TRADE.

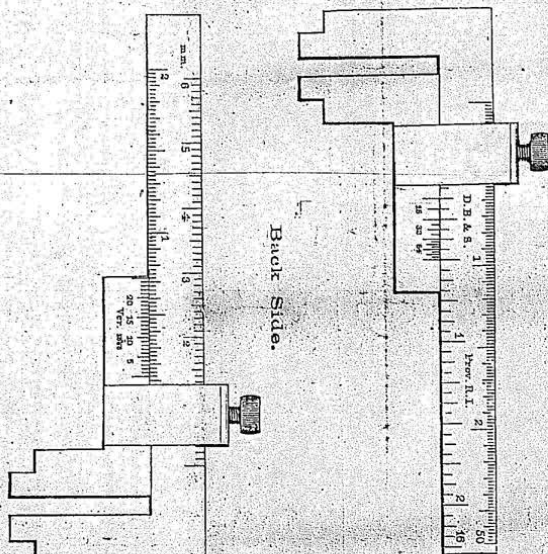
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LOWEST PRICES.

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Front Side



DESCRIPTION OF THE VERNIER, AND ITS USE

[illegible]

On the last cut, instrumenting a line of inches numbered 1, 2, &c. each inch being divided into four parts, and each tenth into four parts, making forty divisions to the inch. On the sliding jaw is a line of division called a Vernier, from the inventor's name, of twenty-five parts, numbered 1 to 10, 20. The twenty-five parts on the vernier correspond, in extreme length, with twenty-five parts on the bar, or the zero point of the bar. If the sliding jaw of the Call cut is four parts, or twenty-four fortieths on the bar, comes the vernier, and so on, until the two next lines to the left will differ from each other by one thousandth of an inch, and so the difference will continue to increase, one-thousandth of an inch for each division. All they again correspond at the twenty-fifth line on the Vernier. To read the number of parts of the inch, the zero point on the bar is the zero point of the vernier, the zero point, upon the Vernier, the number of divisions until one is found which coincides with one on the bar, which will be the number of thousandths to be added to the distance read off on the bar. The best way of expressing the value of the divisions on the bar is to call the tenths one thousandth, the hundredths two thousandths of ten-ths, or fortieths, twenty and one quarter of one fortieth, which are equal to it, will be the second and twenty-five thousandths (1/25). Now suppose the sliding jaw was moved to the left so that the first line on the Vernier should coincide with the next one on the scale, which will make twenty-five thousandths, (.025) more to be added to one hundred and twenty-five thousandths (1/25), making the law then open one hundred and fifty thousandths (1/200) on the Vernier.

On application.

On the Standard Price List of U. S. Standard Rules and Machinist's Tools will be sent, per mail.

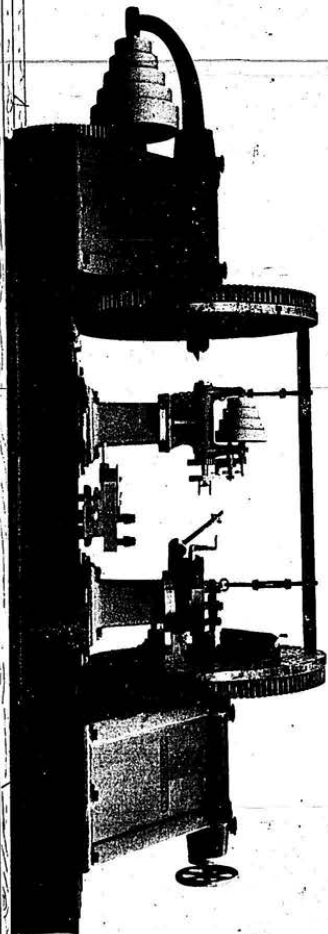


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10,000 " " " " " " 20.00	

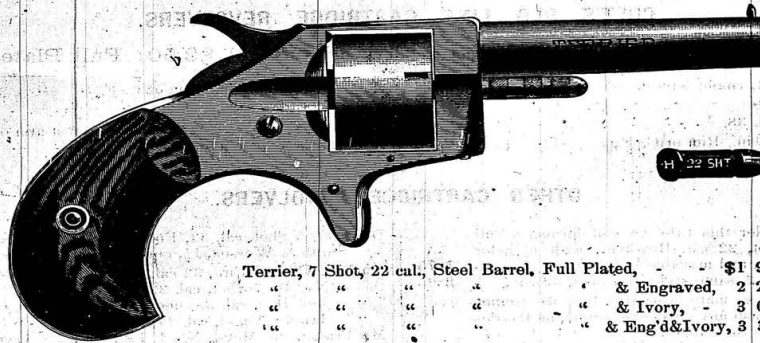
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832 & 834 ARCH ST., PHILADELPHIA, PA.

JUNE, 1877.

SPIES, KISSAM & CO.,

279 Broadway, New York. P. O. Box 2004.

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Terrier, 7 Shot, 22 cal., Steel Barrel, Full Plated, - \$1 90
 " " " " " & Engraved, 2 25
 " " " " " & Ivory, - 3 00
 " " " " " & Eng'd & Ivory, 3 35



Blood Hound, 5 Shot, 32 cal., Long Cylinder, Steel Barrel, Full Plated, - \$4 00
 " " " " " & Engraved, - 4 50
 " " " " " & Ivory, - 5 50
 " " " " " & Engraved & Ivory, 6 00

FOURTH OF JULY PISTOLS.

Uncle Sam, Bright Barrels, 2, 3 & 4-in., per pair, -	\$0 95	Keno, Steel Barrel, Full Plated, -	1 35
Faro, Brass Frames, Blued Barrels, -	1 10	King Pin, Single Shot, Full Plated, cal. 22, -	1 00
No. 107, German Double Barrel, per pair, -	2 50	Star, Vest Pocket, " " -	1 25
1776 Pistols, cal. 22, Brass Frames, for Blank Car-		Queen, Vest Pocket, Steel Barrel, -	75
tridges only, per pair, -	1 15	" " " " Full Plated, -	85
Volcano, cal. 22, Blank Cartridge Pistol, very neat,		Gem, cal. 22 and 30, -	2 00
per pair, -	1 25	Never Miss, cal. 32, -	2 00
Bonnie Blue, cal. 22, Blank Cartridge Pistols, per pair, 1 10		Stevens' Single Shot, cal. 22 and 30, -	2 00
Keno, Single Shot, Steel Barrel, Plated Frame, cal. 22, \$1 25		Allen 42, Single Shot, cal. 32, -	2 25

Cap Pistols, using either cap and shot, or powder, first-rate for young marksmen, \$5 00 doz.

COLT'S NEW LINE SOLID FRAME REVOLVERS.

THE BEST ARE ALWAYS THE CHEAPEST

New 7 Shot, 22 cal.,	\$ 3.00	New 5 Shot, 38 cal.,	\$7 50
" " " Full Nickel Plated,	3.75	" " 41 cal.,	8 00
" 5 Shot, 30 cal.,	6 00	" C. F. Army, 45 cal.,	13 00
" " 32 cal.,	7 50	" Rim " 44 cal., "Stetson,"	14 40
New Double Action 5 Shot, cal. 38, C. F., "perfect,"			\$15 00

COLT'S OLD LINE CARTRIDGE REVOLVERS.

Old Model, 7 Shot, 22 cal., long (perfect as when sold at \$7 60), \$2 50; Full Plated, \$2 60.

New Pocket, N. M. round barrel, cal. 38-3 in., cheap and effective,	\$6 50	Police, cal. 38-5½ in., Rim or C. F.,	\$10 80
Navy, 6 Shot, cal. 38.		" " 38-6½ in., " "	11 16
Police, cal. 38-44 in., Rim or C. F.,	10 44	New C. F. Army, cal. 44-c., the cheapest arm of this calibre ever offered,	9 50

OTHER CARTRIDGE REVOLVERS.

"Hard Pan," under this title we will furnish a Full Plate, 7 Shot, 22 cal. Revolver, with cylinder self-revolving, and movable base-pin, - - -
"Hard Pan," No. 2, same style, five shot, 32 cal., - - -

There are so many varieties, that we cannot agree to furnish any particular brand, as the demand exceeds the supply.

Sharp's, No. 21½, 4 Shot, cal. 32, steel barrel, no escape of gas, deeper penetration and better quality than any cheap revolver, - - - - -

Terrier, 2 Shot, 22 cal., Full Plated,	1 90
Bloodhound, 5 Shot, 32 cal., long, Full Plated,	4 00
Tiger, No. 3, 5 " 38 " " "	5 50
Tiger, No. 4, 5 " 41 " " "	6 00
Smoker, No. 1, 7 Shot, cal. 22, Full Plated,	\$2 10
" " No. 2, 5 Shot, cal. 32, " "	4 00
" " No. 3, 5 Shot, cal. 38-long, Full Plated,	5 50
" " " 41-long, " "	6 00
N. M. Tycoon, No. 1, 7 Shot, cal. 22. Half Plated,	2 50
" " " No. 2, 5 Shot, cal. 32-long, Half Plated,	5 00
" " " No. 3, 5 Shot, cal. 38-long, Half Plated,	6 00
New Double-Action R. & W., cal. 32,	7 50
" " " " " cal. 38,	8 00
" " " " " cal. 41,	8 50
Standard, 7 Shot, XX,	5 00
" " 5 " XXX,	5 75
" " 5 " cal. 32, long cylinder,	6 50
Déringer, 7 Shot, cal. 22, Full Plated, same model as Smith & Wesson,	4 50

Deringer, 5 Shot, cal. 32, Full Plated, same model as
Smith & Wesson, 11, equally heavy. - - \$7 00

National Central Fire, 32 cal. 6 Shot, Full Plated,	5	00
Allen, No. 30, 7 Sht, cal. 22,	2	75
" Bull Dog, cal. 38, new model,	6	75
" Swamp Angel, cal. 41, new model,	7	25
My Friend, All Metal, No. 1, Full Plated & Engraved,	4	50
" " " No. 2,	"	50
Harrington & Richardson, No. 1, 5 Shot, cal. 32, Blued,	5	50
" " " No. 2, 7 " cal. 32, "	6	00
" " " No. 3, 5 " cal. 38, "	6	00
" " " No. 4, 5 " cal. 41, "	6	50
" " " Victor, 5 " cal. 32, Nickel	3	25

Smith & Wesson, No. 1,	} At lowest market rates.
" " No. 38, with automatic extractor,	
" " No. 38, " Full Plated,	
" " No. 3, Russian model,	
" " No. 3, Schofield "	

Whitney, No. 1, N. M., 7 Shot, cal. 22,	Half Plated,	\$3 50
" " " " " "	Full	" 3 75
" No. 13, " 5 Shot, cal. 32,	Half	" 5 00
" No. 21, " " cal. 38,	Half	" 5 25
Elliot Self Cocking, 4 Shot, cal. 32,	-	- 3 00
Colt's Deringers, cal. 41, per pair,	-	- 7 20
National " No. 1, cal. 41, Metal Handles, per pair,	-	- 7 20
" " No. 2, Wood Handles,	-	- 7 20
Williamson, cal. 41,	-	- 6 50
Remington Deringer, No. 1, cal. 41,	-	- 4 50
" Double Deringers, each,	-	- 6 40

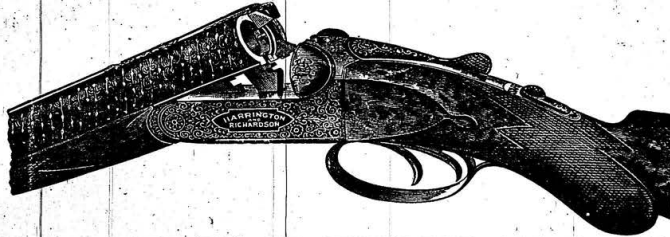
HURRICANE AIR GUN.



Length, 32 inches. All metal, with skeleton stock, neatly finished. Makes no noise, not liable to get out of order. Shoots either darts or shot accurately. Price, \$4 80; Full Nickel Plated, \$6 00.

TERMS CASH. Orders must be accompanied with satisfactory references, or by remittance of ten per cent. on account if to be forwarded C. O. D.

THE "H. & R." HAMMERLESS.



EDW. K. TRYON, Jr. & CO.
PHILADELPHIA, PA.

DECLINE IN WINCHESTER RIFLES.



	OCTAGON BARREL	ROUND BARREL		OCTAGON BARREL	ROUND BARREL
Model 1866, 44 Cal., Rim Fire,	\$23.00	\$22.00	Model 1873, 22 Cal., Centre Fire,	\$27.00	\$25.00
" 1873, 44 " Centre "	27.00	25.00	" 1876, 45-80 "	29.00	27.00
" 1873, 38 " " "	27.00	25.00	" 1876, 45-75 "	29.00	27.00
" 1873, 32 " " "	27.00	25.00	Express, - 50-95 "	38.00	35.00
Extra for Set Trigger.....					\$4.00

DISCOUNT, 40 PER CENT.

The 22 Caliber will be ready in a few weeks, and orders will be filled in the order of their reception.

EDW. K. TRYON, Jr. & CO.,

Philadelphia.

Agents for Winchester Arms and Ammunition.

BASE BALL SUPPLIES.



SPALDING'S TRADE MARKED BALLS AND BATS A SPECIALTY.

We have added to our business a full line of Base Ball supplies, making the celebrated Spalding Trade Marked Goods a specialty.



Complete Price Lists furnished upon application, and all orders filled promptly and carefully.

EDW. K. TRYON, JR. & CO., PHILADELPHIA.

WASHINGTON MILLS EMERY.

Warranted of



Superior Quality.

THIS EMERY is giving universal satisfaction in the most extensive Manufactories of Emery Wheels, Plate Glass, Machinery, Agricultural Implements, Edge Tools, Cutlery, Jewelry, Granite Polishing, &c., throughout the country; it has been tested in the most thorough and scientific manner at the United States Armory, at Springfield, Mass., whose certificate, with other most conclusive evidence, proves it to be superior to all other Emeries. While its purity, and superior qualities for *cutting* and *polishing* cannot be surpassed, it is yet furnished at a price, with which, if *quality* is considered, no other Emery can compete.

We use only Turkish Emery Stone of a quality superior to all other in the country, and with a practical experience of thirty years, advantages of great improvements in machinery, and all other facilities required, patrons may be assured that our Emery shall continue uniformly superior in every respect.

ADDRESS

WASHINGTON MILLS EMERY MFG. CO.

NEW ENGLAND VILLAGE, MASS.

[OVER.]



AWARD
WITH
DIPLOMA.
1876.



Superior Quality

Warranted to

Washington Mills Emery

most extensive manufacturing of Emery wheels, tools, and machinery, and is situated in the heart of the granite region of New England. The quality of the product is guaranteed by the fact that the material is selected from the best sources, and the process of manufacture is supervised by experienced workmen. The product is sold at a price which is as low as possible, and is guaranteed to be of the highest quality. There is None Better.



DIPLOMA
AND
MEDAL
1876.



WASHINGTON MILLS EMERY CO.
NEW ENGLAND VILLAGE, MASS.

(Over.)

Mc. H. HYLAND, JR., 107 WEST 10TH ST. ST. LOUIS, MO.
In reply to your question, as to how I liked the Gas Machine which you put up at our Monastery, I must say that since it is in use (November, 1870), it has given entire satisfaction, and does all you claim for it. I am, yours respectfully,
P. HYLAND, JR.
St. Anthony's Monastery, St. Louis, Mo.

Dear Sir :

You teller of the 6th flax, making inquiry in regard to the Peasmoan Gas Machine you sold and I will pay for me fast full, come /hand this morning and I up for my that machine has gone over as well as that you agreed to do. The light is as good as any gas that you ever had, and I am very much pleased with your city as far as I have seen. I don't think I shall make no change in my gas light, we have no reason to fear in working it any day. In conclusion, I am sure that your machine has proven to be entirely satisfactory and can recommend it to all persons who desire good light with small expense, and I think it entirely safe. Hoping for your success in business, I remain, Sir, Respectfully yours,
GEO. PLUMER.

Office of Keystone Paper Co.,
Wholesale Paper Dealers,
126 and 128 Second Avenue,
Pittsburgh, Pa., June 16, 1898.

Replying to your inquiry, would say, We have had your Gas Machine in our mill at Bozong Spring since last February, and during that time it has given satisfaction. It is operated without trouble, and consumes a good light at reasonable cost, and we can recommend it to parties contemplating putting in a Gas Machine, as we are well pleased with it.

Yours truly,
MORRISON, BARB & CASS.

Jerome Baum, Esq., Prop'r, Union Hotel, Sharpsburg, Pa.

HYAMS & BUTLER,

MANUFACTURERS OF
J. B. MASON'S

Dry and Wet Gas Meters

Dry and Wet Gas Meters

not that they anticipated an increasing demand for
although it made me busy for nearly eight years.
The **Meter Provers and Pressure Registers**, of
which 500,000 of the various styles are now in use, and 750,000
of the old style are still in use, have sold 1 million
copies and still have a great demand.

AIR GAS MACHINES

And all Kinds of Gas Apparatus,

SHAW, T. H. JR.
KILBURN, JOHN, JR., 1847.

**137½ First Avenue, Corner Wood Street
Pittsburgh, Pa.**

also those friends who have not been able to attend the meetings and who are unable to do so.

Packets and delivery at the Depot in Paris	
1000	1000
900	900
800	800
700	700
600	600
500	500
400	400
300	300
200	200
100	100
0	0

Larger sizes subject to special contract.

All machines warranted when put up according to instructions. Printed instructions with each machine which will enable any competent Gas Fitter to place

it in proper position, according to the position of the body of the patient.

Dr. H. J. Hyam's experience in manufacturing **Genu-Apparatus** of all kinds, extends over the past forty-five years, and having been the inventor and patentee of several improvements in the same, he

guarantee can be taken as a fact that you are going to get the best value for your money. The fact that you are getting the best value for your money is a fact that you can't deny. The fact that you are getting the best value for your money is a fact that you can't deny.

GASOLINE: An extract of Refined Petroleum. "W"

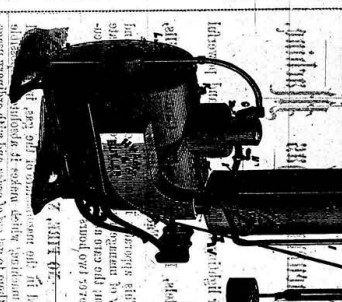
keep constantly on hand a large stock, and are prepared at all times to supply it at the lowest market price.



Gas Making Machine

Southern States
Agricultural and Industrial Exposition
NEW ORLEANS, 1876.

STANDARD



HYAMS & BUTLER
 Sole Agents for the State of New York
 117 Nassau Street, New York City
 PNEUMATIC GAS MACHINE

JEFFERSON 37, 38 & 39
 FIRST AVENUE, CORNER WOOD STREET
 PITTSBURGH, PA.

HYAMS & BUTLER'S

Pneumatic Gas Machine.

For lighting with a soft, brilliant and powerful light,
Hotels, Private Residences, Churches, Mills,
Factories, Halls, &c.

This apparatus is so simple of construction and so safe that a mere child can operate it, the care and attention required does not occupy over two hours a year.

NO FIRE, NO ACID, NO WATER.

Used in the manufacture of the gas, in or around the machine, which makes it absolutely impossible to have an explosion. The gas is superior in every respect to the very best Coal Gas; it takes four gallons of Gasoline to make 1000 cubic feet of gas, which, at the rate of 15 cts. per gallon, would cost only 72 cents per hour for each burner. It also has than 1 of a

MANUFACTURED BY
HYAMS & BUTLER,
187 1/2 FIRST AVENUE, CORNER WOOD STREET,
Pittsburgh, Pa.

THE PNEUMATIC GAS MACHINE

Is the simplest and best contrivance ever offered to the public for the artificial illumination of private houses, Churches, Public Halls and Hotels, producing a soft white light, equal, if not better, than that of coal gas.

This apparatus is so very simple as to be almost as easily operated as a kerosene lamp. It is the old well-known GAS MEETER adapted to the production of Hydro-Carbon Vapor Gas, by drawing ordinary atmospheric air through a small body of Gasoline, and directing the same through pipes as if Coal Gas was used. It is simply economy and safety is such, as to make it a wonder and a matter of astonishment to all those who have seen it.

It takes up no more room than the ordinary Gas Meeter, and it is so simple that it requires no winding up once a week.

It has no complicated machinery like other Gas Machines, to get out of repair, and is so strongly built as to make it almost impossible to get out of order. It is so simple that it can be used in the most difficult places, and the gas is superior in every respect to the very best Coal Gas; it takes four gallons of Gasoline to make 1000 cubic feet of gas, which, at the rate of 15 cts. per gallon, would cost only 72 cents per hour for each burner. It also has than 1 of a

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TESTIMONIALS.

Recently some very valuable improvements have been made and Letters Patent obtained, covering our Gas Machine the most complete, embodying safety, reliability, durability, simplicity and economy.

Patents are hereby cautioned against buying Machines infringing on our Patents. To the safety of our customers in using the Machine, and to the greater security offered over that of lighting by kerosene lamps. The Machine is placed in a vault or on a house at a distance of 20 feet or more from the building to be lighted, and the gas is drawn through pipes as if Coal Gas was used. It is simply economy and safety is such, as to make it a wonder and a matter of astonishment to all those who have seen it.

It takes up no more room than the ordinary Gas Meeter, and it is so simple that it requires no winding up once a week. It has no complicated machinery like other Gas Machines, to get out of repair, and is so strongly built as to make it almost impossible to get out of order. It is so simple that it can be used in the most difficult places, and the gas is superior in every respect to the very best Coal Gas; it takes four gallons of Gasoline to make 1000 cubic feet of gas, which, at the rate of 15 cts. per gallon, would cost only 72 cents per hour for each burner. It also has than 1 of a

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DISCOUNTS

PRICE LIST OF 1874,

SUPPLEMENT OF 1877.

A. GARRIS

NO. 43 COURTLAND STREET, NEW YORK.

Supplementary Catalogue and Price List for 1877 are now ready, and will be sent to you on application. The two editions of 1874 and 1877, combined, make the most complete exhibit of goods in this line, to be found in any illustrated book published.

On pages 47, 48 and 49 of the Supplementary Price List, will be found a very complete TABLE OF CONTENTS OF MARBLE SLABS, enabling the plumber at a glance to get at the number of feet and inches in an ordinary size slab.

NEW YORK: 210 WYCKOFF STREET.
PRINTED AT THE OFFICE OF MRS. J. K. LEESE, 210 WYCKOFF STREET.
1874.

Page in Supple- ment, 1874.	Page in Large Edition, 1874.	DESCRIPTION.	Per Cent.
37	5	Wrought Iron Pipe (cut to Specification 50) reg.	50 & 10
	6 to 13	Tap Welded Boiler Tubes. (Any make).....	10 & 5
	57	Selden Steam Pumps, (private quotations made).....	15
	11	Boiler Feed	25
	13 to 17	Condensers	1
	17 to 21	Carr's Positive Circulating Steam Radiator.....	50
	17, 18	Special prices on large orders.....	
		Finished Brass Work	55
		Steam Whistles.	
		No. 3, Fig. 3, 2, 24, 3, 31, 4	
		Each \$2.50, 3.00, 4.00, 5.00, 6.50.....	
	17, 18	All other Steam Whistles.....	Net.
	21 to 23	Oil Pumps.....	55
	23	Nathan & Dreyfus Oil Cups, Lubricators, &c.....	20
	24 to 30	Broughams	25
	25	Nottingham Lubricators	40
	28	Gauges, Air and Cylinder Cocks, Steam Bibbs and Stops Payner's Gauge Cocks.....	40
		Water Gauges. Fig. 109, No. 1, \$3.00 each	55
		No. 2, \$3.00	Net.
		All other Water Gauges.....	
	28	Brass Globe and Angle Valves.	55
		Sizes, 1, 1 1/2, 2, 3, 4	
		Price each, \$0.25, .31, .40, .55, .80, 1.15, 1.50, 2.45	
	30	Iron Body Globe and Angle Valves, screwed.	Net.
		Sizes, 1, 1 1/2, 2, 3, 4	
		Price each, \$1.20, 1.50, 2.50, 4.00, 5.25, 7.50, 9.00.....	
	29	Brass Check Valves, horizontal or angle.	Net.
		Sizes, 1, 1 1/2, 2, 3, 4	
		Price each, \$.24, .30, .35, .45, .60, .75, 1.10, 2.30.....	
		Brass Safety Valves, screwed.	Net.
		Sizes, 1, 1 1/2, 2, 3, 4	
		Price each, \$1.75, 2.00, 2.25, 2.00, 3.75, 5.25	
	30	Iron Body Safety Valves, screwed.	Net.
		Sizes, 1, 1 1/2, 2, 3, 4	
		Price ea., \$1.75, 2.10, 2.80, 3.30, 6.00, 9.00, 12.00, 14.00	
	3	Other Globe, Angle and Check Valves, brass or iron.....	Net.
	26	Carr's Radiator Valve.....	60
	3	Humphrey's Meter Valve.....	30
		Back Pressure Valves	40
	31	Johnson's Globe, Angle and Check Valves.....	30
	32	Pest Valves, brass or iron, 1/2 to 3	25
		" " " 2 1/2 " 4, flanged	25
		" " " 3 " 8	20
	3, 4	Eddy " " " " " 8	15
		" " " " " " " " " "	25
		" " " " " " " " " "	15
		" " " " " " " " " "	25
	32, 38	" " " " " " " " " "	15
		" " " " " " " " " "	25
		" " " " " " " " " "	25
		" " " " " " " " " "	35
		" " " " " " " " " "	40
		" " " " " " " " " "	60
	33, 34	Iron Lock, Cook and Key	40
		Steam, Iron, gas and Meter Cocks.....	60
		Steam Cocks, light pattern.	
		Sizes, 1, 1 1/2, 2, 3, 4	
		Price ea., 30, 32, 42, 70, 1.00, 1.40, 1.75, 3.00	Net.
		Heavy (regular) pattern.....	Net.
		Sizes, 35, 40, 55, 75, 1.60, 2.25, 3.00, 4.00	Net.
	33	All other Steam Cocks.....	60

DESCRIPTION.			Per Cent.
Page in Edition, 1874.	Page in Edition, 1877.		
35	35 to 38	Street Lamp Cocks.	40
34	34	Gas Fixture Cocks. Cigar Lighters, Gas Burners, Drop-Light Sockets, Patent Couplings for Portables Cook Wrenches, Expansion Joints, (Brass or Iron) Soldering Unions and Nipples.	27 1/2 Net. 70
38	38	Cast Iron Fittings. Gray Iron. Size, 1/4 3/4 1 1 1/4 1 1/2 2 2 1/2 3 3 1/2 4 Elbows, 2 1/2 3 3 1/2 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 Tees Nipples Bushings 1 1/2 2 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2 9 9 1/2 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 Plugs 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 3 3 1/4 3 1/2 4 4 1/4 4 1/2 5 5 1/4 5 1/2 6 6 1/4 6 1/2 7 7 1/4 7 1/2 8 8 1/4 8 1/2 9 9 1/4 9 1/2 10 10 1/4 10 1/2 11 11 1/4 11 1/2 12 12 1/4 12 1/2 13 13 1/4 13 1/2 14 14 1/4 14 1/2 15 15 1/4 15 1/2 16 16 1/4 16 1/2 17 17 1/4 17 1/2 18 18 1/4 18 1/2 19 19 1/4 19 1/2 20 20 1/4 20 1/2 21 21 1/4 21 1/2 22 22 1/4 22 1/2 23 23 1/4 23 1/2 24 24 1/4 24 1/2 25 25 1/4 25 1/2 26 26 1/4 26 1/2 27 27 1/4 27 1/2 28 28 1/4 28 1/2 29 29 1/4 29 1/2 30 30 1/4 30 1/2 31 31 1/4 31 1/2 32 32 1/4 32 1/2 33 33 1/4 33 1/2 34 34 1/4 34 1/2 35 35 1/4 35 1/2 36 36 1/4 36 1/2 37 37 1/4 37 1/2 38 38 1/4 38 1/2 39 39 1/4 39 1/2 40 40 1/4 40 1/2 41 41 1/4 41 1/2 42 42 1/4 42 1/2 43 43 1/4 43 1/2 44 44 1/4 44 1/2 45 45 1/4 45 1/2 46 46 1/4 46 1/2 47 47 1/4 47 1/2 48 48 1/4 48 1/2 49 49 1/4 49 1/2 50 50 1/4 50 1/2 51 51 1/4 51 1/2 52 52 1/4 52 1/2 53 53 1/4 53 1/2 54 54 1/4 54 1/2 55 55 1/4 55 1/2 56 56 1/4 56 1/2 57 57 1/4 57 1/2 58 58 1/4 58 1/2 59 59 1/4 59 1/2 60 60 1/4 60 1/2 61 61 1/4 61 1/2 62 62 1/4 62 1/2 63 63 1/4 63 1/2 64 64 1/4 64 1/2 65 65 1/4 65 1/2 66 66 1/4 66 1/2 67 67 1/4 67 1/2 68 68 1/4 68 1/2 69 69 1/4 69 1/2 70 70 1/4 70 1/2 71 71 1/4 71 1/2 72 72 1/4 72 1/2 73 73 1/4 73 1/2 74 74 1/4 74 1/2 75 75 1/4 75 1/2 76 76 1/4 76 1/2 77 77 1/4 77 1/2 78 78 1/4 78 1/2 79 79 1/4 79 1/2 80 80 1/4 80 1/2 81 81 1/4 81 1/2 82 82 1/4 82 1/2 83 83 1/4 83 1/2 84 84 1/4 84 1/2 85 85 1/4 85 1/2 86 86 1/4 86 1/2 87 87 1/4 87 1/2 88 88 1/4 88 1/2 89 89 1/4 89 1/2 90 90 1/4 90 1/2 91 91 1/4 91 1/2 92 92 1/4 92 1/2 93 93 1/4 93 1/2 94 94 1/4 94 1/2 95 95 1/4 95 1/2 96 96 1/4 96 1/2 97 97 1/4 97 1/2 98 98 1/4 98 1/2 99 99 1/4 99 1/2 100 100 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Page in Supple- ment, 1877.	Page in Large Edition, 1874.	DESCRIPTION.	Per Cent.
17		Sprinklers.	Net.
17		1 $\frac{1}{2}$ \$2.00, 2 \$2.50, 2 $\frac{1}{2}$ \$3.00, 3 \$3.50 per doz.	10
17		Rahr's Patent Hose Clamps.	40
36		Clamps fig. 748.	50
17		" Barley's.	20
		Compression Hose Pipe.	
		Compression Bibbs, Light Pattern.	
		Plain Bibbs. $\frac{1}{2}$ \$5.00 $\frac{3}{4}$ \$6.50 per doz.	Net.
		Hose " Iron Pipe, 6.00 " 7.00 "	"
		" " Iron Pipe, 7.00 " 8.00 "	"
		Two sizes only. These Bibbs sent only when specially ordered.	
15, 16	59, 85	Compression Work, ordinary, except Basin Cocks.	60
		Compression Basin Cocks.	
		No. 1, Fig. 309 Brass, Nickel, Silver.	Net.
		" 2, " 10.50 10.50 13.00 per doz.	"
		" 3, " 4 atm 11.00 14.00 16.00 "	"
16		Compression Double Bath Cocks, fig. 726.	Net.
		Brass, \$5.00; Nickel, \$6.00; Silver, \$7.00, each.	40
		Compression Double Bath Cock, for back of slab.	25
		Roller Work, Brass or Silver Plated.	30
13, 14		Nickel Plated.	25
11 to 13		Hot's Self-Closing Brass Work.	25
18, 19		Hayden's or Zane's Self-Closing Brass Work.	25
28		Eydrants and Hose Boxes, Lehman's.	20
28		" " Muddock's or Stacy's.	20
29		" " Douglas's.	15
27		" " Hyde's.	Net.
		Baxter's or Coleman's Lift & Force Pump.	
26, 27		2 $\frac{1}{2}$ size reduced to \$25.00 each.	Net.
27		Carri's Single and Double Acting Force Pumps.	30
27		Bunn's Universal Pumps.	25
		Douglas' Pendulum Pumps.	27 $\frac{1}{2}$
87, 88		Plumbers' Copperware.	
89		Galvanized Boilers Complete, Ground Couplings	
		Gallions, 25 30 35 40 52 .63 82 100	Net.
		Size, 18x48 18x60 18x60 18x60 18x72 60x30 60x22	40
26		Price, \$11.50 13.00 14.00 16.00 20.00 25.00 30.00 35.00	Net.
26		All other kinds and sizes, from Scheele's List.	40
26	89	Lead Traps, Lowe's, new list.	Net.
		Adds.	
25		" " Canyette, National, or Dubois old list.	25
		Water Closets.	
		Jennings', all earthenware.	Net.
		" " with Iron Trap.	10
		" " Safe Pan Closet.	10
25	89 & 92	Carri's O. I. C. or Craigie's C. C. C.	10
25		All other Closets, Hoppers and Valves, excepting fig 437	Net.
25	92	Stop Hopper, fig. 437.	20
		Tank and Cistern Closet Combined.	
		Jennings' six person Urinal.	Net.
		Swing Urinal.	10
25		Jennings' Tip-up Lavatory and Basin.	6
25		Carri's Basin and Bath Supply.	10
26		Weaver's Patent Basin Waste.	5
			30

Page in Supple- ment, 1877.	Page in Latest Edition, 1874.	DESCRIPTION.	Per Cent.
		EARTHENWARE.	
		Inches, 12 13 14 15 16	
		Com'n Overflow Basins, ea. \$1.00, 1.10, 1.30, 1.50, 1.70	Net.
		Patent " " " " 1.10, 1.20, 1.30, 1.60, 1.85	" "
		Rubber Plug " " " " 1.30, 1.40, 1.50, 1.85, 2.10	" "
		Round Closet " " " " " " " " 1.40	" "
		Oval " " " " " " " " 1.50	" "
		When ordered by the crate an allowance of 10 cents each on all Basins in Net List, and no charge for crates.	
		Fancy Basins at low rates.	
		Bedfordshire Urinals, Flke, Back or Corner,	
		Large, \$5.00; small, \$4.00 net each.	
		Rubber Plugs for Basins, 15 cents each.	
		All other Earthenware 20 per cent. from List.	
		Pitcher Spout Pumps, " " " " " " " " " "	40
		Sand Pumps, Hydraulic Ram Suction and Force	
		Pumps, Brass Drip Pumps, " " " " " " " " " "	25
		Plumbers' Cabinet Ware, " " " " " " " " " "	25
24	97	Lead Pipe , 9 cts. per pound, subject to usual terms	
47	97, 98	Sheet Lead, 94 cts. per " " " " " " " " " "	Net.
47 to 49		Marble Slabs , \$1.00 per ft. " " " " " " " " " "	Net.
20		Plumbers' Tools , " " " " " " " " " " " "	Net.
29		Peck's Lawn Sprinkler, " " " " " " " " " " " "	25
		PLUMBERS' IRON AND ENAMELED WARE.	
		Plain, Square, Sinks, 16x12x6 to 48x26x6, inclusive,	
		also Shallow, Corner, and Half Circle, " " " " " "	00
		Galvanized Square Sinks, 16x12x6 to 48x26x6, in-	
		clusive, also Shallow, Corner, & Half Circle, " " " "	50
		Plain Square Sinks, 30x24x8 to 94x24x10, inclusive	50
		Galvanized Square Sinks, 30x24x8 to 94x24x10, inclusive	40
		Enameled Sinks, all sizes, " " " " " " " " " "	40
		Stop, Stables, McKenle, Demorest and Abendroth	
		Sinks, Sink Backs, Air Chambers, Public Urinals,	
		and Leader Pipes, Plain, Galvanized and Enameled	40
		Stop Sinks with Hoppers, Stop Hoppers, Privy Sinks,	
		Bath and Wash Tubs, Soap Cups, Tanks, Plumb-	
		ers' Furnaces and Charcoal Furnaces, Plain, Gal-	
		vvanized and Enameled, " " " " " " " " " "	20
		Wash Stands, Plain, Galvanized and Enameled, " " " "	20
		Iron Pipe and Pipe Fittings , from 2 to 6 inches	
		inclusive, " " " " " " " " " " " " " " " "	60 & 10
		Iron Pipe and Pipe Fittings, from 7 to 15 inches,	
		inclusive, " " " " " " " " " " " " " " " "	50
		Green House Pipe Fittings, " " " " " " " " " " " "	60
		Iron Tanks, Square and Circular, " " " " " " " " " "	20
		All other Plain Ware not enumerated above, " " " "	50
		All other Galvanized and Enameled Ware not enu-	
		merated above, " " " " " " " " " " " " " " " "	40
		Steam Kettles, " " " " " " " " " " " " " " " "	15
26		Enameled Philadelphia Hoppers , \$1.10 each	Net.
28		Laforge's Pat. Service Box Covers, " " " " " " " " " "	Net.
		Blunt's Sand, Air and Vacuum Chambers and Muesl-	
		room Strainers, " " " " " " " " " " " " " " " "	30

See Indexes for pages.

These discounts and prices are subject to change without notice, we will notify our customers of important changes when practicable, but hold ourselves entirely irresponsible for such changes.