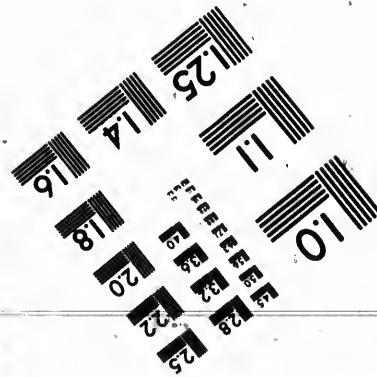
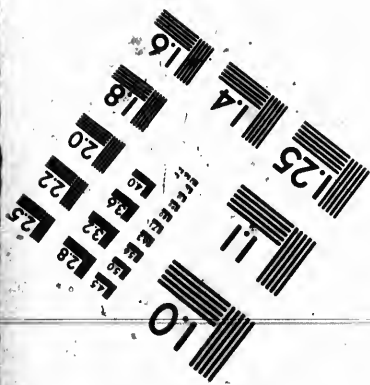
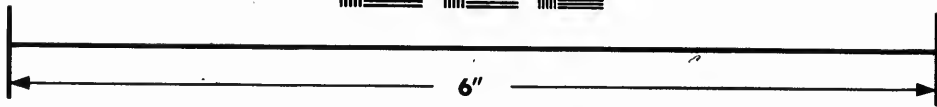
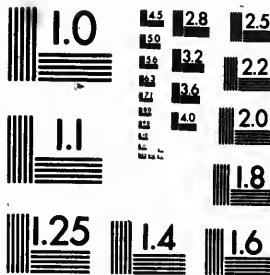


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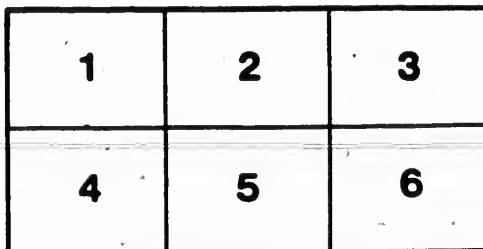
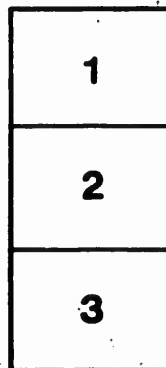
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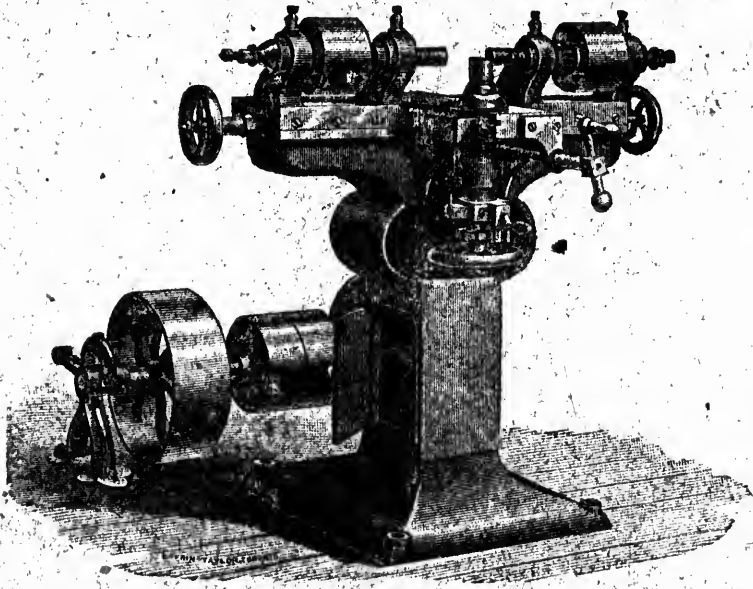
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No. 11.

PRICE LIST

ENGINEERS BRASS GOODS AND
SUPPLIES.

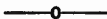


(Two Spindle Valve Milling Machine.)

A. R. WILLIAMS,
SOHO * MACHINE * WORKS,
ESPLANADE STREET.
(Near Union Station)
TORONTO, ONTARIO

O. O. PERRY, Printer, 14 Wellington Street, Toronto.

CIRCULAR.



I have added to my stock a full line of Engineers' Brass and Iron Goods, Malleable and Iron Fittings, &c., MANUFACTURED SPECIALLY FOR MY TRADE, OF THE BEST MATERIAL, AND WITH THE LATEST IMPROVED AUTOMATIC MACHINERY. I enclose Price List and Discount Sheet, and will be pleased to have a sample order from you when in need of goods. All goods are fully guaranteed.

I desire to call special attention to the "GALVIN COMPOUND WEDGE GATE VALVE," as being the most complete valve—in every respect—offered in this market, and I am convinced that users of Peet or Gate Valves when they see this valve will use no other.

Awaiting your favors, I am

Yours faithfully,

A. R. WILLIAMS.

A. R. WILLIAMS,

"WESTERN EMPIRE"



BOILER FEEDERS.

No.	Gallons per hour.	Horse Power will Supply.	Suction and Feed.	Steam.	PRICE.
1	60	8	$\frac{3}{8}$	$\frac{3}{8}$	\$ 18 00
2	90	12	$\frac{1}{2}$	$\frac{3}{8}$	20 00
3	120	16	$\frac{1}{2}$	$\frac{3}{8}$	24 00
4	220	30	$\frac{3}{4}$	$\frac{1}{2}$	30 00
5	300	40	$\frac{3}{4}$	$\frac{1}{2}$	35 00
6	420	56	1	$\frac{3}{8}$	45 00
7	540	72	1	$\frac{3}{4}$	50 00
8	720	96	$1\frac{1}{4}$	1	55 00
9	900	120	$1\frac{1}{2}$	1	60 00
10	1260	168	$1\frac{1}{2}$	$1\frac{1}{2}$	75 00
11	1740	230	$1\frac{1}{2}$	$1\frac{1}{2}$	90 00
12	2236	298	2	$1\frac{1}{2}$	110 00
13	2820	376	2	$1\frac{1}{2}$	125 00
14	3480	464	$2\frac{1}{2}$	2	150 00
15	3600	600	2	2	175 00

ESPLANADE ST., TORONTO, ONT.

THE BAILEY PATENT LUBRICATOR.



With Sight Feed.



Without Sight Feed.

No.	For Engine of Horse power.	PRICE.		Size of Shank Threaded.	20 per cent. For finishing partly in the rough, deduct 15c. to 25c. each, according to size.
		Without Sight Feed.	With Sight Feed.		
1	4	\$ 2 75	\$ 5 00	$\frac{3}{8}$ in.	
2	8	3 2	5 50	"	
3	12	3 75	6 00	"	
4	15	4 50	7 00	$\frac{1}{2}$ in.	
5	25	5 50	8 00	"	
6	40	6 50	9 00	"	
7	70	8 40	11 00	$\frac{3}{4}$ in.	
8	100	10 50	13 00	"	

ADVANTAGES.

The following are some of the advantages we claim:—

1. That our Lubricator can use any kind of oil, tallow, suet or grease.
2. The perfect oiling of all the working parts of the engine, including the throttle, governor, steam chest, cylinder, etc
3. That the flow of the lubricant can be regulated to any desired quantity, and that such flow is regular and continuous.
4. Economy in quantity of lubricant used.
5. Simplicity of construction and durability—no intricate arrangements to get out of order.
6. Cheapness.
7. The ease with which anyone can work it.
8. Its requiring only one connection with the steam pipe, or wherever attached.
9. *The sight feed, if desired.*

ESPLANADE ST., TORONTO, ONT.

WROUGHT IRON PIPE.

FOR GAS, STEAM AND WATER.

TABLE OF STANDARD DIMENSIONS AND SIZES.

Nominal Inside Diameter in Inches.	Weight per Foot in lbs.	Actual Inside Diameter in Inches.	Actual Outside Diameter in Inches.	Number of threads to Inch of Screw.	Price per foot.
$\frac{1}{8}$	0.24	.27	0.405	27	\$0 06
$\frac{1}{4}$	0.42	.36	0.54	18	0 06
$\frac{3}{8}$	0.56	.49	0.675	18	0 07
$\frac{1}{2}$	0.85	.62	0.84	14	0 08 $\frac{1}{2}$
$\frac{3}{4}$	1.12	.82	1.05	14	0 12
1	1.67	1.04	1.315	11 $\frac{1}{2}$	0 17
1 $\frac{1}{4}$	2.25	1.38	1.66	11 $\frac{1}{2}$	0 22
1 $\frac{1}{2}$	2.69	1.61	1.90	11 $\frac{1}{2}$	0 28
2	3.66	2.06	2.375	11 $\frac{1}{2}$	0 41
2 $\frac{1}{2}$	5.77	2.46	2.875	8	0 75
3	7.54	3.06	3.5	8	1 10
3 $\frac{1}{2}$	9.05	3.54	4.0	8	1 38
4	10.72	4.02	4.5	8	1 75
4 $\frac{1}{2}$	12.49	4.50	5.0	8	2 25
5	14.56	5.04	5.563	8	2 75
6	18.76	6.06	6.625	8	3 50
7	23.41	7.02	7.625	8	4 75
8	28.34	7.98	8.625	8	6 50

Pipe cut and screwed to specification.

ESPLANADE ST., TORONTO, ONT.

A. R. WILLIAMS,

MALLEABLE IRON FITTINGS.

SIZE	1/4	3/8	1/2	5/8	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6
UNIONS.....	0 18	0 22	0 25	0 32	0 40	0 55	0 70	1 00	1 75	2 75	4 00	5 00	.....	.....
BUSHINGS.....	0 06	0 06	0 07	0 09	0 12	0 15	0 20	0 30	0 45	0 65	0 90	1 20	2 00	3 00
PLUGS.....	0 04	0 04	0 05	0 06	0 08	0 10	0 14	0 22	0 35	0 60	0 90	1 25	1 81	2 35
NIPPLES--Shoulder	0 05	0 06	0 07	0 09	0 11	0 15	0 20	0 28	0 55	0 75	1 00	1 40	2 40	3 50
Do. Long.....	0 07	0 08	0 10	0 12	0 15	0 22	0 28	0 39	0 77	1 05	1 40	2 00	3 20	5 00
Do. Close.....	0 08	0 09	0 11	0 14	0 18	0 23	0 29	0 41	0 70	1 00	1 40	2 00	3 20	5 00
Do. R. & L.....	0 10	0 10	0 12	0 15	0 18	0 24	0 30	0 40	1 00	1 25	1 60	2 40	4 00	5 50
STOP COCKS.....	.....	.....	0 81	0 90	1 30	1 85	2 40	3 30	5 90	8 90	14 00	17 55	40 00	70 00
FLANGES.....	.....	.....	0 20	0 28	0 36	0 50	0 65	0 90	1 40	2 00	2 75	3 50	5 00	6 00
FLANGED UNIONS.....	.....	.....	0 75	0 89	1 00	1 25	1 50	1 75	2 00	2 75	3 50	4 20	6 00	7 50

ESPLANADE ST., TORONTO, ONT.

MALLEABLE IRON FITTINGS.

Classified and Sold by Weight as under.

CLASS A

Per lb. 26c.

ELBOWS— $\frac{1}{2}$, $\frac{3}{4}$, 1 , $1\frac{1}{2}$, 2 , 3
RED. COUPLINGS— $\frac{1}{2}$, $\frac{3}{4}$, 1 , $1\frac{1}{2}$, 2 , 3

TEES— $\frac{1}{2}$, $\frac{3}{4}$, 1 , $1\frac{1}{2}$, 2 , 3

CLASS B

Per lb. 16c.

ELBOWS & TEES— $\frac{1}{2}$ to $1\frac{1}{2}$ x $\frac{3}{4}$ in.
ELBOWS—side outlet, all sizes.
DROP ELBOWS & DROP TEES—All sizes
RED. COUPLINGS— $\frac{1}{2}$ to $1\frac{1}{2}$ in.
R. & L. COUPLINGS— $\frac{1}{2}$, $\frac{3}{4}$, 1 and $1\frac{1}{2}$ in.
LOCK-NUTS— $\frac{1}{2}$, $\frac{3}{4}$, 1 and $1\frac{1}{2}$ in.

STREET ELBOWS— $\frac{1}{2}$, $\frac{3}{4}$, 1 .
CROSSES— $\frac{1}{2}$ to 1 in.
CAPS— $\frac{1}{2}$, $\frac{3}{4}$, 1 and $1\frac{1}{2}$.
EXTENS. ON PIECES.
R. H. COUPLINGS— $\frac{1}{2}$ and $\frac{3}{4}$.
RETURN BENDS— $\frac{1}{2}$, $\frac{3}{4}$.

CLASS C

Per lb. 14c.

ELBOWS & TEES— $\frac{1}{2}$, $\frac{3}{4}$, and 1 in.
CROSSES— $\frac{1}{2}$ and larger
RED COUPLINGS— $\frac{1}{2}$, $\frac{3}{4}$ and larger.
R. H. COUPLINGS— $\frac{1}{2}$ and 1 .
LOCK-NUTS— $\frac{1}{2}$ and larger.

STREET ELBOWS— $\frac{1}{2}$ and larger.
STRAPS—All sizes.
R. & L. COUPLINGS— $\frac{1}{2}$ and larger.
RETURN BENDS— $\frac{1}{2}$ and larger.
CAPS— $\frac{1}{2}$ inch and larger.

CLASS D

Per lb. 12c.

ELBOWS— $\frac{1}{2}$ and larger.
R. H. COUPLINGS— $\frac{1}{2}$ and larger.

TEES— $\frac{1}{2}$, $\frac{3}{4}$, 1 and larger.

A. R. WILLIAMS.

CAST IRON FITTINGS.

SIZE.	1/2	3/8	1/2	3/4	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	6	7	8
Elbows & Reducing Elbows, each	0 06	0 08	0 11	0 15	0 21	0 30	0 60	0 90	1 20	1 60	2 30	3 00	4 20	7 00	10 00	
Elbows, Right and Left,	0 07 1/2	0 10	0 13 1/2	0 18 1/2	0 26 1/2	0 37 1/2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elbows, 45°	0 10	0 15	0 20	0 26	0 35	0 50	1 30	1 60	1 90	2 50	3 50	4 50	5 50	9 00	12 00	
Tees & Redc'g Tees "	0 08	0 12	0 16	0 22	0 31	0 45	0 90	1 35	1 80	2 40	3 75	4 50	6 30	10 00	15 00	
Crosses & Reducing Crosses,	.....	.....	0 28	0 38	0 54	0 76	1 52	2 43	3 00	4 00	5 00	6 00	8 00	14 00	20 00	
Return bends, close "	.....	.....	0 13 1/2	0 18	0 28	0 40	0 55	1 50	2 53	3 75	5 00	.....	.....	.....	.....	.....
" " open "	.....	.....	0 19	0 26	0 44	0 64	1 00	1 75	2 50	4 25	5 75	8 00	.....	.....	.....	.....
Caps "	.....	.....	.....	.....	.....	.....	.....	0 50	0 60	0 85	1 15	1 45	1 75	3 10	4 35	
Plugs "	0 03	0 03	0 04	0 05	0 06	0 11	0 16	0 25	0 45	0 60	0 80	1 00	1 30	1 90	3 75	5 50
Reducing Couplings "	.....	.....	.....	.....	.....	.....	.....	0 70	1 00	1 50	2 00	2 50	3 00	4 00	8 00	11 00
Flange Unions "	.....	0 55	0 60	0 70	0 80	1 00	1 20	1 50	1 90	2 40	3 50	5 00	6 90	8 00	10 00	
Bushings & Redc'g Bushings,	0 05	0 06	0 07	0 08	0 10	0 14	0 20	0 30	0 45	0 60	0 80	1 00	1 30	1 90	3 10	5 50

ESPLANADE ST., TORONTO, ONT.

ENGINEER'S BRASS GOODS.

BEST STEAM METAL.

8

A. R. WILLIAMS,

SIZE.	1/2	3/4	1	1 1/4	1 1/2	2	3	4
Globe valves..... each	0 60	0 75	1 00	1 35	1 80	2 30	3 00	4 00
Angle Valves..... flanged..... "						5 90	16 00	30 00
Check Valves, Horizontal, Angle or vertical.						20 00	26 00	45 00
Stop Cocks..... "	0 50	0 60	0 85	1 15	1 55	2 30	3 25	4 00
" " extra heavy..... "	0 70	0 90	1 15	1 90	2 35	3 60	4 80	6 00
" " three way..... "						7 25	14 50	22 00
Peet Valves..... "						12 00	28 00	36 40
Cross Valves..... "	1 30	1 65	2 70	3 00	4 45	5 95	9 20	17 75
" " (with flanges)..... "						7 00	16 00	24 00
Radiator Valves (wood heel)..... "						15 50	22 00	33 00
" " N. P. Mountings..... "	1 51	1 80	2 40	3 75	4 75			
Combined Globe and Check Valves..... "	1 75	2 30	3 00	4 40	5 50	5 00		
Safety Valves (Cross or Angle pattern)..... "	3 50	4 15	5 50					
Foot Valves (with Strainer)..... "	2 75	3 50	5 00	7 00	8 50	12 00	20 00	30 00
Whistle Valves..... "	2 70	3 30	4 40	5 1 50	11 00	20 00	30 00	
Safety Valves (Crosby Pop)..... "				12 01	15 02	30 00		

ESPLANADE ST., TORONTO, ONT.

ENGINEERS' BRASS GOODS,

BEST STEAM METAL.

A. R. WILLIAMS,

9

SIZE.	1	2	3	4	5	6
Hose Valves ea h						
Steam Whistles, For Iron pipe...						
(with Valves) Price each	2 20 3	08 4 20 6 50	13 00 18 00			
Expansion Joints						
Hose Couplings	0 30	1 25 4 70 6 50 9 50	13 00 18 00			
Hose Branches.	0 30	2 50 1 20 1 65 2 30	3 50 7 50			
Plain Oil Cups, Screwed for Pipes...	0 30	2 75 3 34 4 17 5 00	7 50			
Screwed Covers (Price each).....	0 35	0 40 0 45 0 50 0 60 0 90	1 25 1 75 2 25 2 75 3 00			
Glass Oil Cups (Dia. and length of Glass. Screwed for pipe.....)	1 1 1/2	1 1/2 x 1 1/2	2 x 2 1/2	2 1/2 x 2 1/2	3 x 3	3 1/2 x 3 1/2
(with Guards.) Price each.....	1 85	2 10 2 20	3 30 3 60	5 50 6 60	7 75	

ESPLANADE ST., TORONTO, ONT.

ENGINEER'S BRASS GOODS. (*Best steam metal*)

SIZE.	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
	Cylinder Cocks, T Handle, straight.	0 65	0 65	0 80	1 40
" " Lever " " "	0 80	0 80	0 90	1 25	
" " " " bent nose.	1 00	1 00	1 25	2 15	
Compression Gauge Cocks, Wood Handle.....			1 50	1 75	2 00
Compression Gauge Cocks, with Stuffing Box, Iron Wrench , and Guards.....			1 70	1 80	2 00
Water Gauge, Glass and Rubbers...			3 20	3 20	
" " Complete, 3 Guards, polished body.....			5 00	4 00	
" " 4 Guards, Complete..			10 00	10 00	

STEAM GAUGES.

SIZE OF DIAL..	5	5½	6	6¾	8½
Japaned Case-finished Ring...	6 00	8 00	10 00	14 00	21 00
" " N. P. " " "	6 50	8 50	10 60	14 75	21 75
Bronzed " " " " "	8 25	10 25	12 75	16 75	25 00
Brass " and ring.....	9 00	11 00	14 00	18 00	27 00

PUMP VALVES.

SIZE.	$\frac{1}{2}$	$\frac{3}{4}$	1	1½	2	2½	3
With Air Chamber.	2 00	3 00	4 00	6 00	9 00		
" do. and Cock	3 00	4 00	5 25	7 25	10 50		
WHISTLE VALVES	3 50	4 50	5 75	7 05	11 25		
	2 70	3 30	4 40	5 10	5 50	11 00	19 00 25 00

ESPLANADE ST., TORONTO, ONT.

ENGINEERS' AND PIPE-FITTERS' TOOLS.

MALLEABLE IRON PIPE VICES.

No. 1, holds pipe	$\frac{1}{2}$ to 2 in., weighs	15 lbs.	.....	\$10 00
No. 2, " "	$\frac{1}{2}$ to 2 " "	30 lbs.	.....	15 00
No. 1, " "	$\frac{1}{2}$ to 2 " "	22 lbs., open jaw.	.....	12 50
No. 2, " "	$\frac{1}{2}$ to 2 " "	36 " "	.....	16 00

PIPE TONGS.

BROWN'S PATENT ADJUSTABLE.

NUMBER.	1	1 $\frac{1}{2}$	2	3	4	4	6	7
Size of pipe..	$\frac{1}{2}$ to $\frac{3}{4}$	$\frac{3}{4}$ to 1	$1\frac{1}{2}$ to $1\frac{1}{2}$	1 to 2	$1\frac{1}{2}$ to 3	$2\frac{1}{2}$ to 4	3 to 5	4 to 7
Price	\$1 50	\$1 75	\$1 00	\$2 75	\$4 50	\$9 00	\$20 00	\$28 00

BROCK'S PATENT CHAIN WRENCH.

NUMBER.	1	2	3	4	5
Size of pipe	$\frac{1}{2}$ to $1\frac{1}{2}$ in.	$\frac{1}{2}$ to $2\frac{1}{2}$ in.	1 to 4 in.	2 to 8 in.	3 to 12 in.
Price	\$3 50	\$5 50	\$7 50	\$11 00	\$18 00

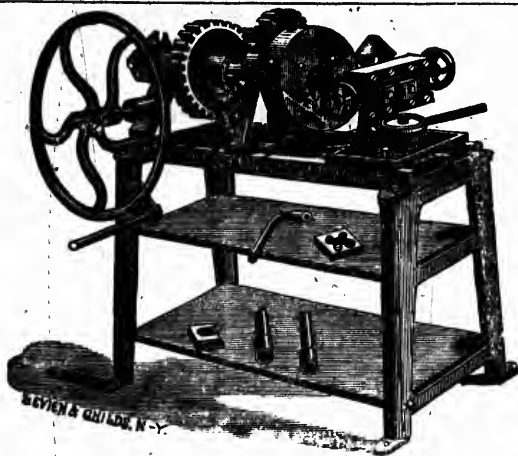
ALLIGATOR WRENCHES.

NUMBER.	1	2	3	4	5
Size of pipe	$\frac{1}{2}$ to $\frac{3}{4}$ in.	$\frac{3}{4}$ to $\frac{3}{4}$ in.	$\frac{1}{2}$ to $2\frac{1}{2}$ in.	$1\frac{1}{2}$ to 2 in.	2 to 3 in.
Price, per doz	\$4 00	\$12 00	\$24 00	\$36 00	\$54 00

WHEEL PIPE CUTTER.

No. 1, cuts pipe	$\frac{1}{2}$ to 1 in.	.....	\$4 00
No. 2, " "	1 to 2 in.	.....	6 00
No. 3, " "	2 to 3 in.	.....	18 50

ESPLANADE ST., TORONTO, ONT.

I. X L.**NEW AND IMPROVED****Pipe Cutting & Threading Machine****HAND MACHINE.**

With set of right hand solid dies, $\frac{1}{2}$ to 2 inches, inclusive, fly wheel, and set of sockets for making nipples $\frac{1}{2}$ to 2 in., complete..... \$120 00

POWER AND HAND MACHINE.

With set of right hand solid dies, $\frac{1}{2}$ to 2 inches, inclusive, fly wheel, pulleys, countershaft, and set of sockets for making nipples $\frac{1}{2}$ to 2 inches, complete..... \$150 00
(Speed of countershaft, 150 revolutions per minute; pulley 11 inches in diameter.)

Attachments fitted to these machines, when ordered, for threading bolts and tapping nuts $\frac{1}{2}$ to $1\frac{1}{2}$ inches, seven sizes, at an additional cost of \$90.

Particulars and prices of larger sizes of Saunders Sons' Pipe Machines on application.

ESPLANADE ST., TORONTO, ONT.

BRASS WORKERS MACHINERY.

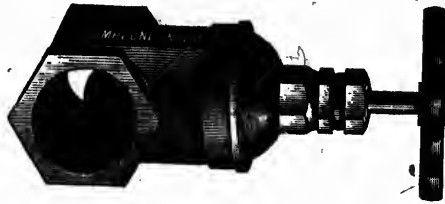
The London Machine Tool Co., (the only builders of fine grade Machinery for Engineers and Brass Finishers use, in Canada) are manufacturing Tools, as hereunder, specially and exclusively for this trade.

Prices will be given on applications for Planers, Shapers, Lathes, Drills, Milling Machinery, and other Engineers Tools.

12	Turret Lathe Plain	400	00
16	" "	500	00
12	" { power feed	500	00
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	Cock Grinder	142	00
2	Spindle Valve Miller	325	00
8	Bench Lathe with C Shaft	75	00
12	" " "	90	00
14	Lathe with Set over Tail Stock	160	00
12	Hand Lathe with C Shaft	120	00
14	" " "	140	00
12	" " with C mpound Tool Rest	150	00
14	" " " " "	175	00
No. 1	Globe Valve Chuck takes $\frac{1}{2}$ inch to 1 inch	60	00
No. 2	" " $\frac{1}{2}$ inch to 2 inch	75	00
1	X. L. Pipe Machine, hand power	120	00
"	" " power and hand	150	00

ESPLANADE STREET, TORONTO.

GALVINS "COMPOUND WEDGE" GATE VALVE.



ALL BRASS, BEST STEAM METAL.

Size, Inches.	$\frac{1}{2}$	1	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3
Price each.	1 68	2 10	3 00	4 45	5 95	9 20
Quick opening with Lever Handle.			4 80	6 00	8 40	12 00
						21 80
						30 00

IRON BODY, BRASS MOUNTED.

SIZE INCHES.	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	5	6	7	8	10	12	14
Di ameter. Flang	7	7	8	9	10	11	13	14	16	18	20
Flanged Screwed End.	} PRICE.	18	22	25	28	50	37	35	48	50	60
		60	75	90	125						

Water Gates, Extra Heavy.

2 IN. TO 60 IN. PRICES ON APPLICATION.

(See cut on back of cover.)

Entirely new in construction, and warranted to be the best and cheapest in the market.

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COMPLETE OUTFITS FOR

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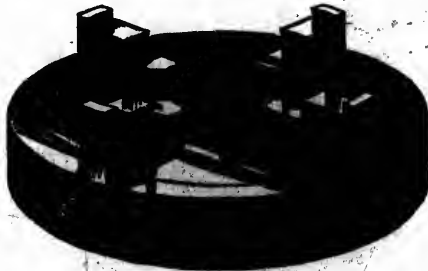
Planing Mills, Cabinet Factories, Saw

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FULL LINES OF SUPPLIES IN

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Vises, Forges, Chucks, Taps and Dies,

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ESPLANADE ST., TORONTO.

Galvin "Compound Wedge"

GATE VALVE.

WITH DOUBLE INDEPENDENT DISCS, FOR

Water, Gas, Steam and Oil.



PRICES ON APPLICATION. Give Size and Particulars.

