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F

CATALOGUE

SECTION

F

FOOT PRESSES

AND

HAND SCREW PRESSES

BUILT BY

**THE WATERBURY FARREL FOUNDRY
& MACHINE CO.
WATERBURY, CONNECTICUT, U.S.A.**

1851--1905

Catalogue Section "F"



WE have arranged this section of our Catalogue with a view of presenting in a compact form our line of **Foot Presses** and **Screw Presses**, unincumbered with descriptions of other machines.

The illustrations are confined to styles of Presses which are in frequent demand and are considered standard machines: in addition to these we are prepared to make quickly any unusual size or form that may be required for special purposes. The rapid introduction of automatic machinery has not tended to lessen the use of Foot Presses and Drop Presses (Catalogue Section "D"); the demand for them is constantly increasing, and for many kinds of work, especially in cases where the quantity of output is limited, the simple Tools herein described will successfully compete with more elaborate and expensive automatic machinery.

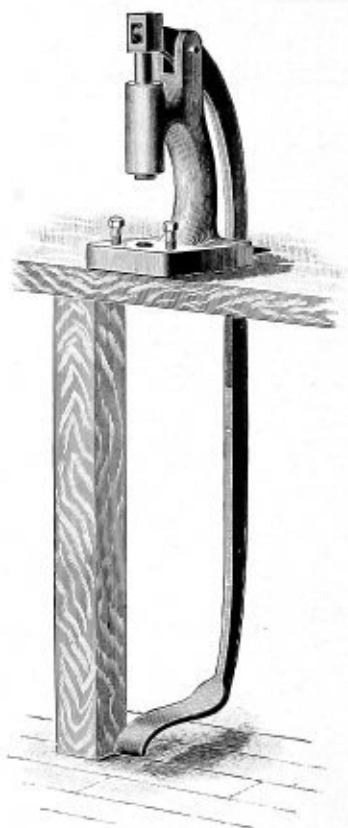
Catalogues of our machinery are divided into sections classifying the Standard Machines we build; the pages of the Catalogues are lettered corresponding with the particular letter that designates the section.



NOTE.—If interested in types of *Presses other than Foot and Screw Presses*, send for separate catalogue sections.

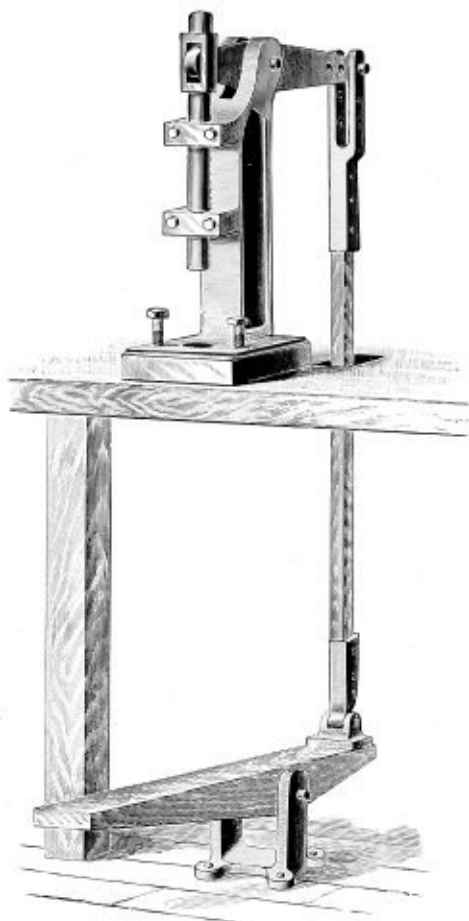
- D** Drop Presses. Automatic Drop Hammers for Forging.
- M** Single Action, Open Back Power Presses. Automatic Feeds.
- N** Blanking and Drawing Presses, Arch and Pillar Patterns. Knuckle Joint and Embossing Presses.
- P** Double Acting Power Presses. Cam Presses.
- H** Hydraulic Presses.
- S** Open Back Shearing Presses.

For Complete list of our Catalogue Sections, see back cover page.



No. 0 Round Slide Foot Press. (2758)

Stroke,	1 inches
Distance from bed to bottom of slide when down,	2 "
Distance from bed to bottom of guide,	3 $\frac{1}{2}$ "
Size of bed,	5 $\frac{1}{4}$ × 3 $\frac{1}{4}$ "
Opening in bed,	diameter, 1 $\frac{1}{2}$ "
Distance between die-bed bolts,	4 "
Diameter of die-bed bolts,	1 $\frac{1}{8}$ "
Center of slide to upright,	2 "
Diameter of slide,	1 "
Weight,	50 pounds
Price,	\$.....



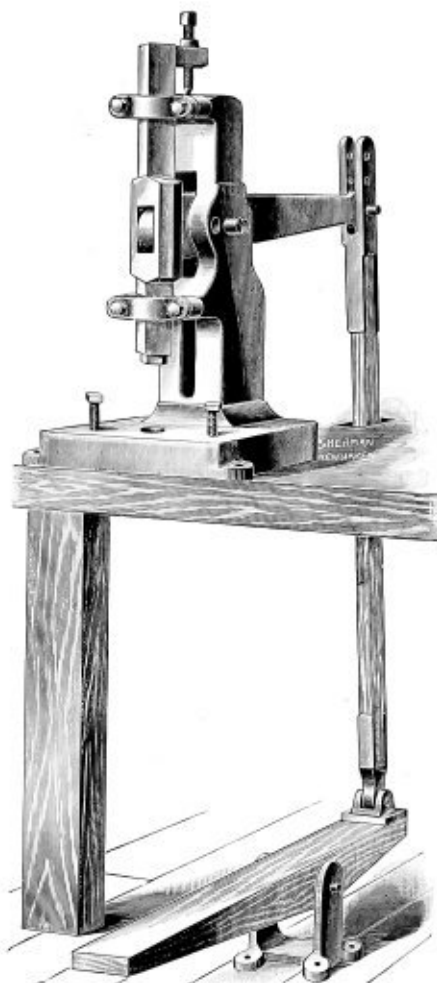
No. 1 Round Slide Foot Press.

Stroke,	3 inches
Distance from bed to bottom of guide,	6 "
Distance from bed to bottom of slide when down,	3 "
Size of bed,	6 $\frac{1}{2}$ \times 5 $\frac{1}{2}$ "
Distance from center of slide to upright,	2 $\frac{1}{2}$ "
Distance between die-bed bolts,	2 $\frac{1}{2}$ "
Opening in bed,	diameter, 2 "
Weight,	110 pounds
Price,	\$



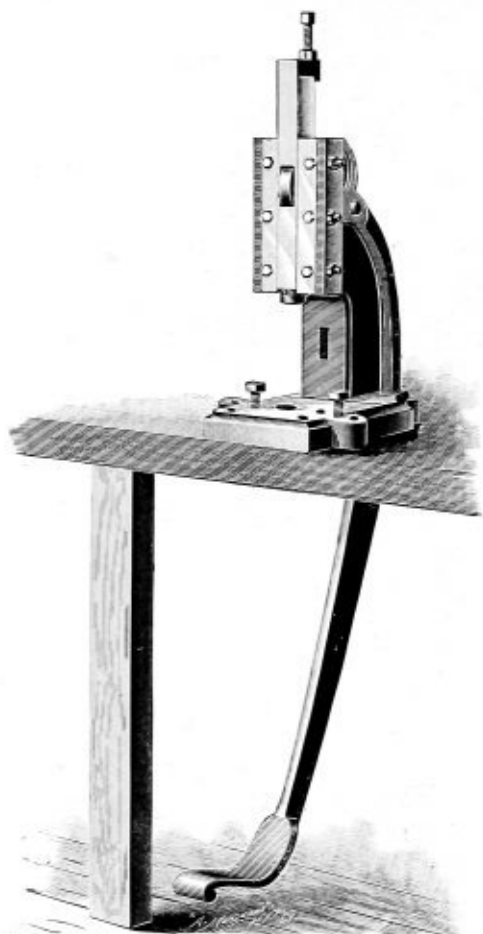
No. 1 Square Slide Foot Press, (2485)

Stroke,	1 $\frac{1}{2}$ inches
Distance from bed to bottom of guide,	4 $\frac{1}{2}$ "
Distance from bed to bottom of slide when down,	2 $\frac{1}{2}$ "
Distance from center of slide to upright,	2 $\frac{3}{4}$ "
Size of bed,	7 $\frac{1}{2}$ x 5 $\frac{1}{2}$ "
Opening through bed,	diameter, 2 $\frac{1}{2}$ "
Distance between die-bed bolts,	5 "
Size of table,	14 x 14 "
Weight, without table,	92 pounds
Price, without table,	\$
Weight, with table,	180 pounds
Price, with table,	\$



No. 2 Square Slide Foot Press.

Stroke,	2 $\frac{1}{2}$ inches
Distance from bed to bottom of guide,	6 "
Distance from bed to bottom of slide when down,	3 $\frac{1}{4}$ "
Distance from center of slide to upright,	3 $\frac{1}{2}$ "
Distance between die-bed bolts,	5 $\frac{1}{2}$ or 7 $\frac{1}{2}$ "
Weight,	225 pounds
Price, with treadle,	\$

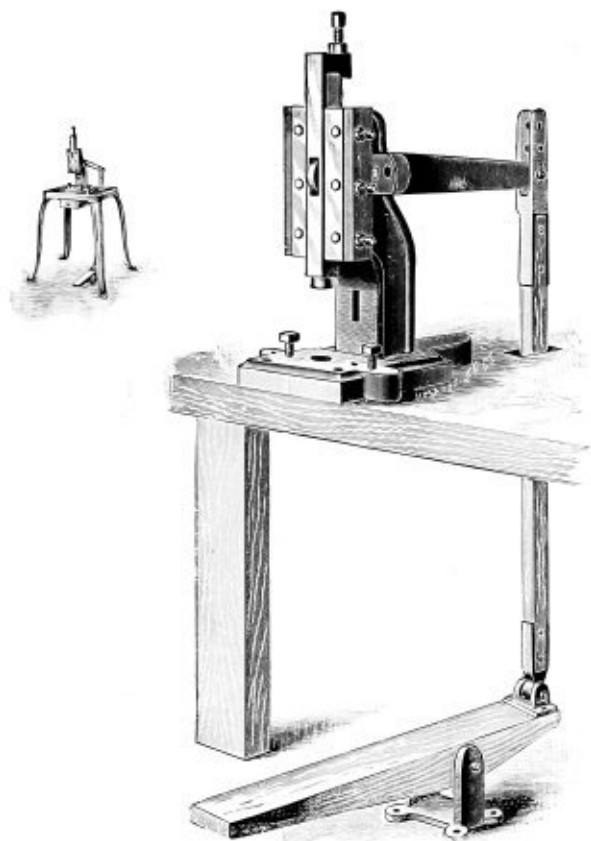


No. 2 Foot Press with Iron Kick-Treadle. (3207)

This cut shows the size and kind of Foot Press in most general use among the manufacturers of brass goods; specifications are as follows:

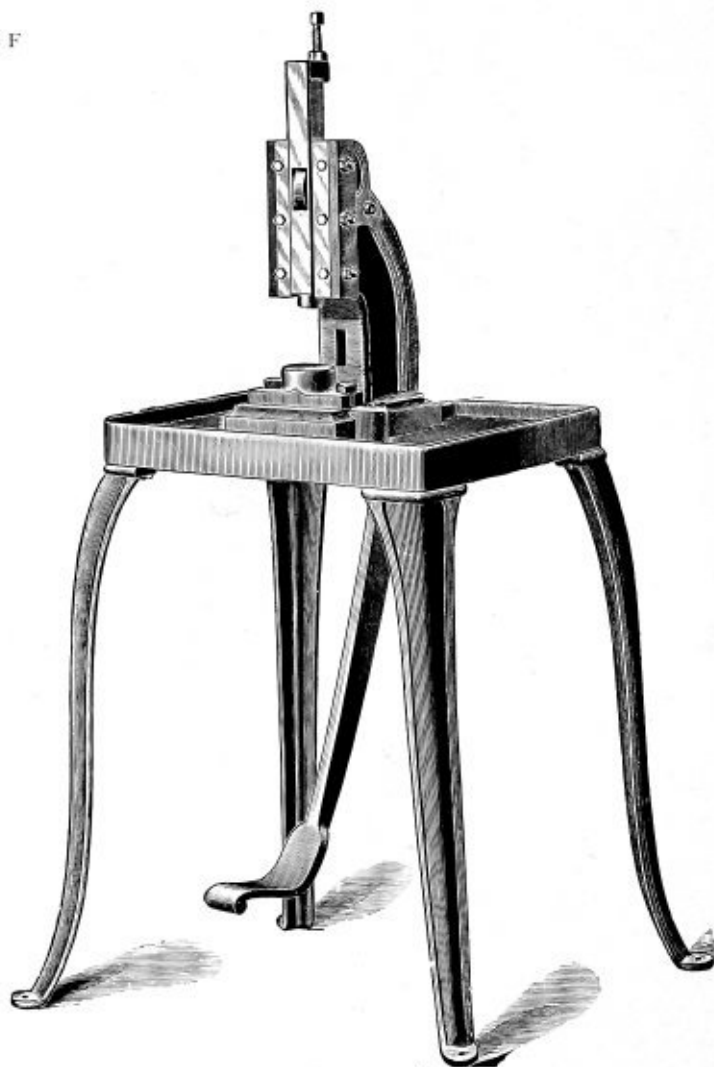
Stroke,	13 $\frac{1}{4}$ inches
Distance from bed to bottom of guides,	6 "
Distance from bed to bottom of slide when down,	3 $\frac{1}{2}$ "
Distance from center of slide to upright,	3 "
Distance between die-bed bolts,	5 $\frac{1}{2}$ or 7 $\frac{1}{2}$ "
Opening in bed,	diameter, 2 "
Weight,	130 pounds
* Price,	\$

* Cast steel treadle—in place of cast iron—adds \$2.00 to list price.



No. 2 Foot Press with Wood Treadle. (3207)

Stroke,	2½ inches
Distance from bed to bottom of guides,	6 "
Distance from bed to bottom of slide when down,	2¾ "
Distance from center of slide to upright,	3 "
Distance between die-bed bolts,	5½ or 7½ "
Size of bed without the lugs,	7 × 5¾ "
Weight,	130 pounds
Price, as shown,	\$.....
Price with table and legs, shown in miniature cut,	extra, \$10.00
Price of iron drawer,	extra, \$1.50

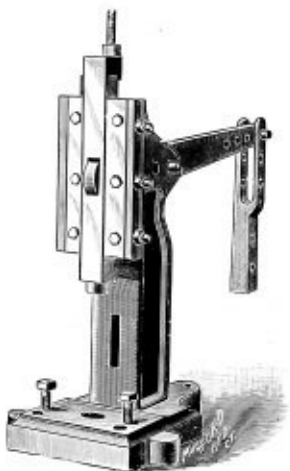


No. 2 Foot Press on Table. (3207)

Dimensions same as on page 6 F. The table is 20 x 24 inches, and 36 inches high; iron drawer fitted, when desired, for \$1.50. Price does not include die-bed; plain die-bed as shown, \$1.00. Price with table 24 x 30 inches, \$2.00 extra.

Weight, 300 pounds.

Price, \$.....



No. 2 High Foot Press. (3349)

*Distance from bed to bottom of guides,	9 inches
Weight,	155 pounds
Price, with treadle,	\$

Other dimensions same as regular No. 2 Foot Press. This press is furnished with wood treadle, same as shown on page 7 F.

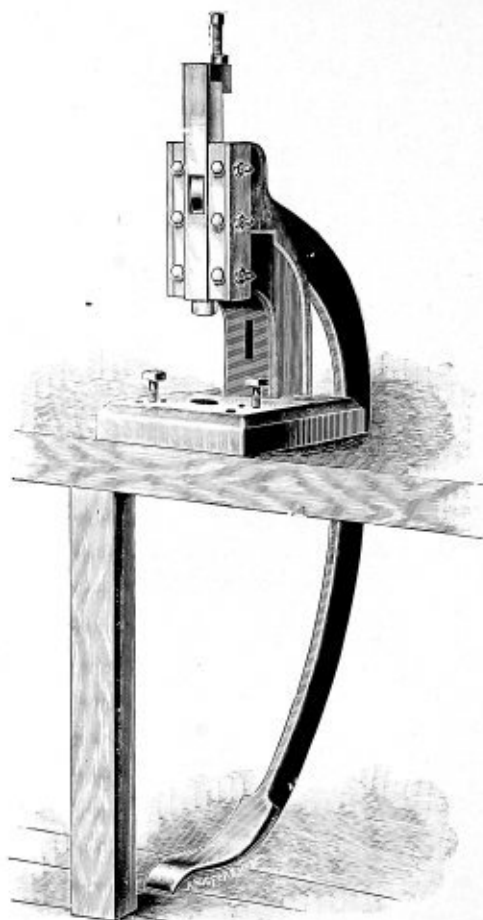
*We also have a pattern No. (3350), with distance from bed to bottom of guides 7 inches.

Our Standard No. 1 Foot Press (311) is not illustrated, but is the same style as the No. 2 size shown on the opposite page. It has the following dimensions :

Stroke,	1 inches
Distance from bed to bottom of guides,	4 "
Distance from bed to bottom of slide when down,	3 "
Distance from center of slide back to upright,	2½ "
Distance between die-bed bolts,	4 "
Size of bed,	5 x 5 "
Weight,	54 pounds
Price,	\$

This press is sometimes made with a handle instead of a treadle. The slide is gibbed like the Standard No. 2, page 6 F.

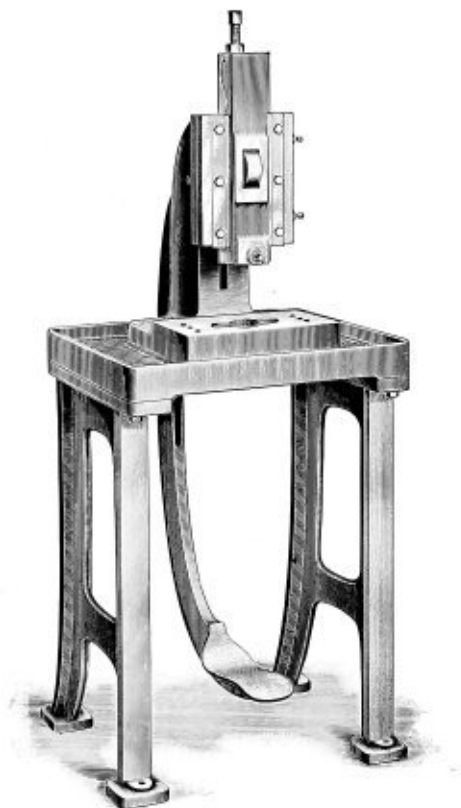
Price,	\$
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No. 3 Foot Press. (164)

Stroke,	2½ inches
Distance from bed to bottom of guides,	6 "
Distance from bed to bottom of slide when down,	3 "
Distance from center of slide back to upright,	4 "
Distance between die-bed bolts,	7½ or 5½ "
Size of bed,	10x7 "
Hole in bed,	diameter, 2 "
Weight,	170 pounds
Price,	\$.....
Price, with iron table and legs,	\$10.00 extra

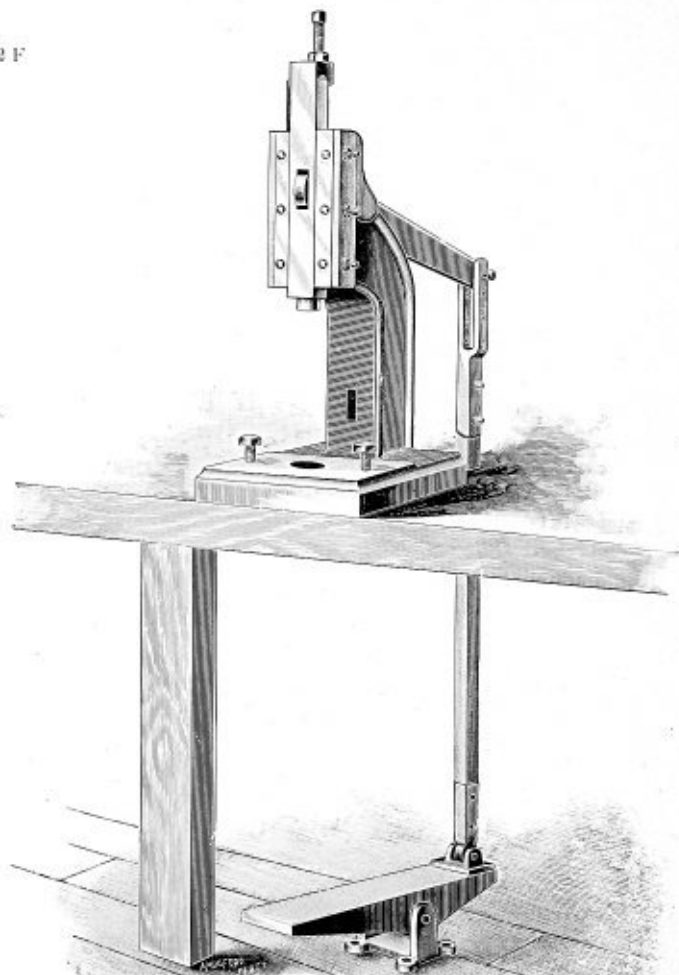
We have a pattern No. (1328), which is the same as above except the frame, which has been widened to receive a gate bored for a punch shank 2 inches diameter by 3 inches deep.
 Weight, 130 pounds. Price, \$.....



No. 4 Foot Press. (1700)

The above illustration shows our heaviest plain Foot Press. The table upon which it is mounted is new in design and will allow a number of presses to stand side by side without occupying more space than if mounted on a bench.

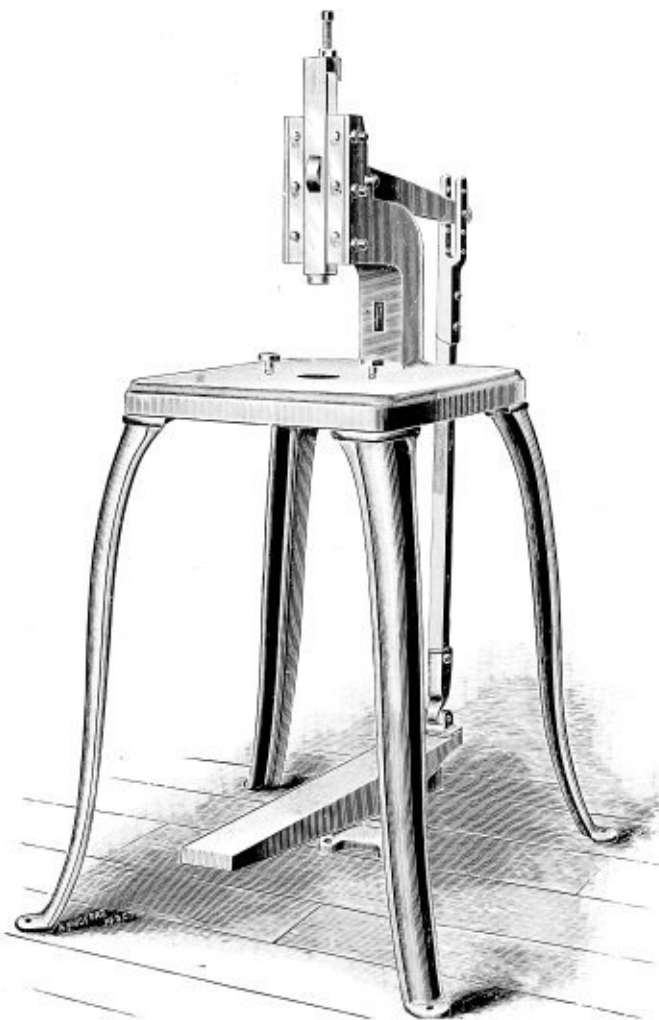
Stroke,	2 inches
Distance from bed to bottom of guides,	6 "
Distance from bed to bottom of slide when down,	4 $\frac{3}{4}$ "
Distance from center of slide back to upright,	4 "
Distance between die-bed bolts,	9 "
Size of bed,	7 $\frac{1}{2}$ x 13 "
Hole in bed,	3 x 6 "
Size of table,	20 x 24 "
Weight, for bench,	300 pounds
Price,	\$
Weight, with table and legs,	615 pounds
Price, with table and legs,	\$



Special Foot Press, Extra High. (3351)

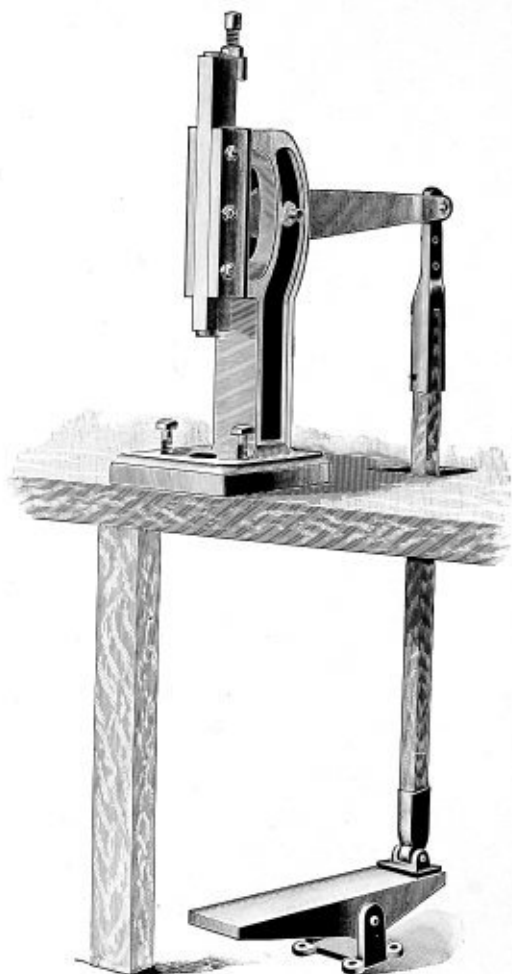
Stroke,	2 inches
Distance from bed to bottom of guides,	10 "
Distance from bed to bottom of slide when down,	7½ "
Distance from center of slide back to upright,	5½ "
Distance between die-bed bolts,	5½ or 7½ "
Size of bed,	8½ x 10 "
Hole in bed,	diameter, 2 "
Weight,	190 pounds
Price,	\$

A special large pattern has size of bed 14 inches wide by 14 inches deep (upright to front). Distance from center of slide back to upright is 8 inches; distance from bed to bottom of guides, 6 inches; stroke, 2 inches. This press is mounted on iron legs, similar to cut on page 8 F. Weight, 435 pounds. Price, \$



Special Foot Press, on Legs. 3352

Stroke,	2 inches
Distance from bed to bottom of guides,	7 "
Distance from bed to bottom of slide when down,	4½ "
Distance from center of slide back to upright,	9 "
Distance between die-bed bolts,	5½ or 7½ "
Size of bed,	18×18 "
Hole in bed,	diameter, 3 "
Weight,	390 pounds
Price,	\$



Cloth Button Covering Press. (3208)

WITH WOOD TREADLE.

Stroke,	27 ⁷ / ₈ inches
Distance from bed to bottom of guides,	81 ¹ / ₂ "
Distance from bed to bottom of slide, when down,	5 "
Distance from center of slide to upright,	23 ¹ / ₄ "
Distance between die-bed bolts,	51 ¹ / ₂ "
Weight,	120 pounds
Price, with treadle,	\$

We furnish this press with wood treadle or iron treadle as specified.



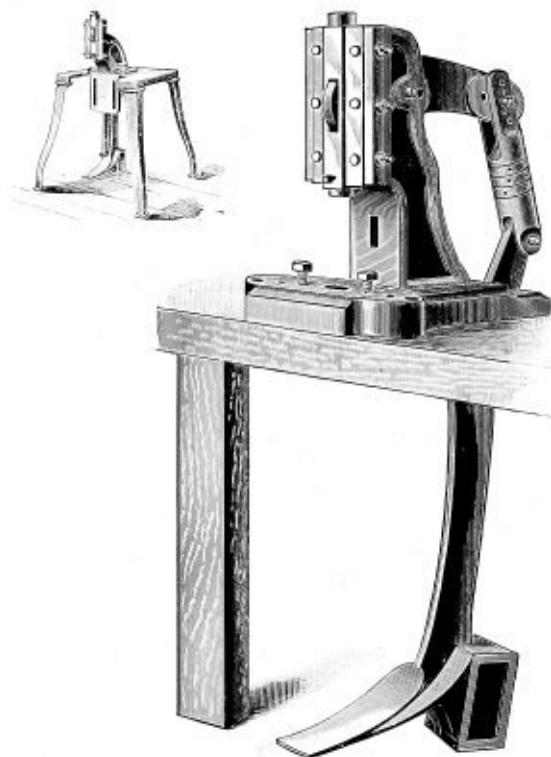
Cloth Button Covering Press. (3208)

WITH IRON KICK-LEVER.

This Cloth Button Covering Foot Press is from the same pattern and has the same dimensions as the machine described on page 14 F, the only difference being that it is operated by an iron kick-lever instead of wood treadle.

Weight, 120 pounds.

Price, \$.....

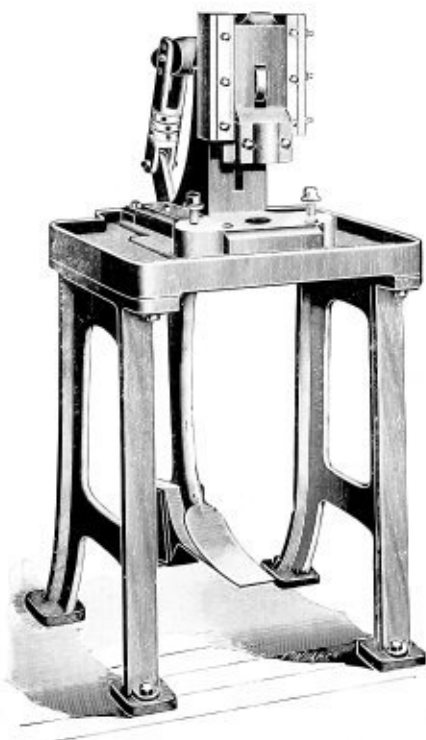


Weighted Compound Lever Foot Press. (1848)

Stroke,	1 inches
Distance from bed to bottom of guides,	$6\frac{1}{8}$ "
Distance from bed to bottom of slide when down,	$\frac{5}{8}$ "
Distance from center of slide to upright,	3 "
Distance between die-bed bolts,	$5\frac{1}{2}$ or $7\frac{1}{2}$ "
Size of bed,	13 x 6 "
Opening in bed,	diameter, $2\frac{1}{4}$ "
Weight,	290 pounds
Price,	\$

Special pattern (1983) is made with wide gate for receiving punch shank $1\frac{9}{16}$ inch diameter, 3 inches long.

Compound lever foot press for adjustable table (1471) shown in above miniature cut, has stroke of 2 inches. Description of this press and price of same will be furnished on application.



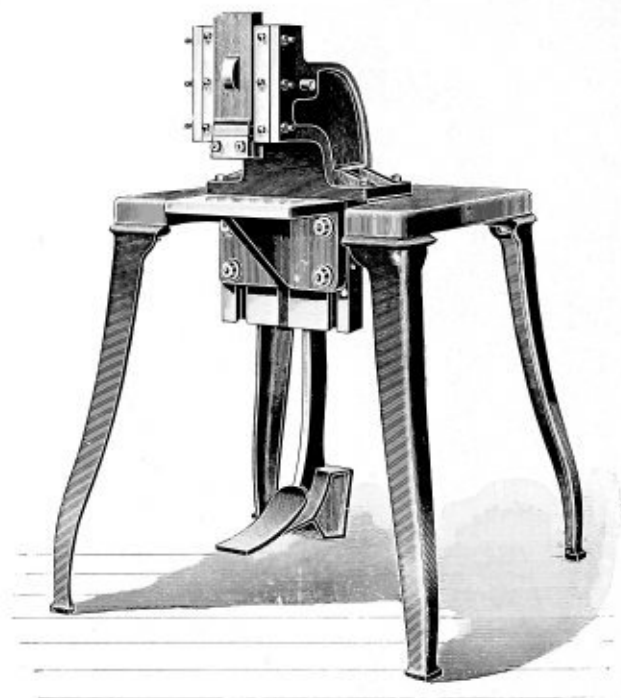
Compound Lever Foot Press. (1983 A)

Stroke,	1	inches
Distance from bed to bottom of guides,	6 $\frac{1}{8}$	"
Distance from bed to bottom of slide when up,	5 $\frac{1}{2}$	"
Distance from center of slide back to upright,	3	"
Distance between die-bed bolts,	5 $\frac{1}{2}$ or 7 $\frac{1}{2}$	"
Opening in bed,	2 \times 3	"
Floor space,	26 \times 24	"
Weight,	640	pounds
Price,	\$
Price of bolster plate,	extra,	\$

Press **1983 A** has a cap on the slide as shown, the socket for holding the punch being 1 $\frac{5}{8}$ inches square and 3 $\frac{1}{4}$ inches deep; press **1983 B** has a round hole in gate with set screw for holding punch shank 1 $\frac{5}{8}$ inches diameter, 3 $\frac{1}{8}$ inches deep.

Weight of 1983 B, 640 pounds.
Bolster plate, extra, \$

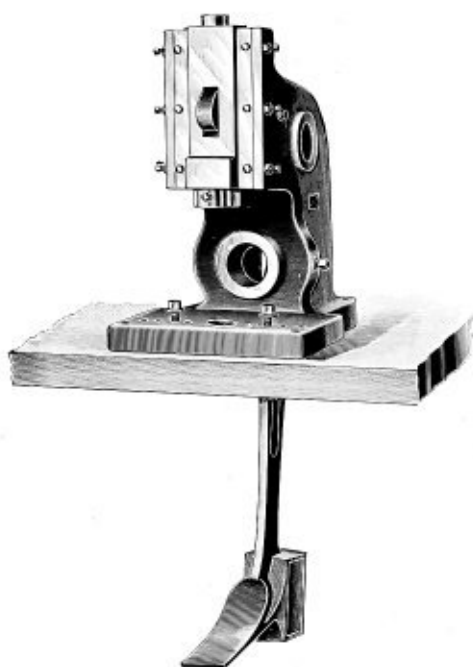
Price of 1983 B, \$.....



Compound Lever Foot Press with Adjustable Bed. (2513)

The press is furnished with the adjustable bed or table shown and with a horn which may be substituted for the bed if desired. This horn is adjustable also; it is finished flat on top, $4\frac{1}{2}$ inches wide and 5 inches front to back, the front edge being $2\frac{1}{4}$ inches in front of the center line of the slide. There is no hole in the bed.

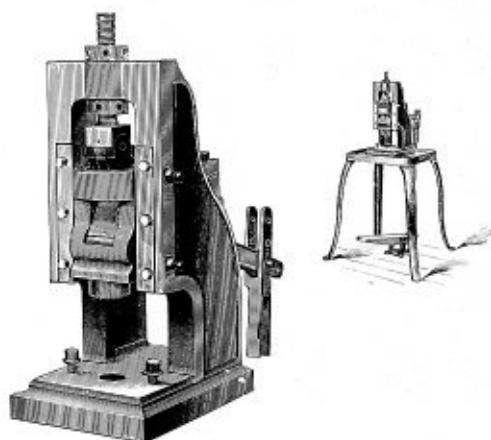
Maximum stroke,	2 inches
Distance from bed to bottom of guides,	$4\frac{1}{8}$ "
Distance from bed to bottom of slide when down,	$2\frac{1}{4}$ "
Distance bed adjusts down,	5 "
Distance from center of slide back to upright,	8 "
Distance from center of slide to front of bed,	2 "
Width of bed on top,	$12\frac{5}{8}$ "
Hole in slide for punch,	$1\frac{1}{4}$ inches square, 2 inches deep
Floor space,	41×41 inches
Weight,	955 pounds
Price,	\$



Compound Lever Foot Press. (2708)

This press is designed to receive a horn for perforating and stamping tubes, shells, etc., and for ordinary stamping and piercing when horn is not used. The slide and slide lever are both made of steel.

Maximum stroke,	2	inches
Distance from bed to bottom of guides,	10	"
Distance from bed to bottom of slide when down,	8	"
Diameter of bottom of slide,	3 $\frac{1}{2}$	"
Size of hole in slide for punch, diameter, 1 $\frac{1}{2}$ inches, depth, 2 $\frac{1}{4}$	2 $\frac{1}{4}$	"
Center of slide back to face of boss for horn,	6	"
Diameter of hole for horn,	3 $\frac{1}{2}$	"
Distance from center of hole to top of bed,	3 $\frac{3}{4}$	"
Distance from center of slide to front of bed,	3 $\frac{1}{2}$	"
Width of bed, side to side,	15 $\frac{1}{2}$	"
Distance between die-bed bolts,	5 $\frac{1}{2}$, 7 $\frac{1}{2}$, 10 $\frac{1}{2}$ or 12 $\frac{3}{4}$	"
Diameter of hole in bed,	2	"
Bench space,	15 $\frac{1}{2}$ x 20	"
Weight,	490	pounds
Price,	\$



Knuckle-Joint Foot Presses.

	No. 1 243	No. 2 634	No. 3 1842
Stroke, inches,	2 $\frac{1}{8}$	4	4
Distance from bed to bottom of guides, "	6 $\frac{1}{4}$	6 $\frac{1}{4}$	12
Distance from bed to bottom of slide when down, "	4 $\frac{1}{4}$	6 $\frac{1}{4}$	11
Distance from center of slides to uprights, "	3	3 $\frac{1}{2}$	4 $\frac{1}{2}$
Distance between die-bed bolts, "	4 $\frac{1}{2}$ or 6 $\frac{1}{2}$	6 $\frac{1}{2}$ or 8	8
Weight, pounds,	275	365	385
Price, with treadle,	\$.....	\$.....	\$.....

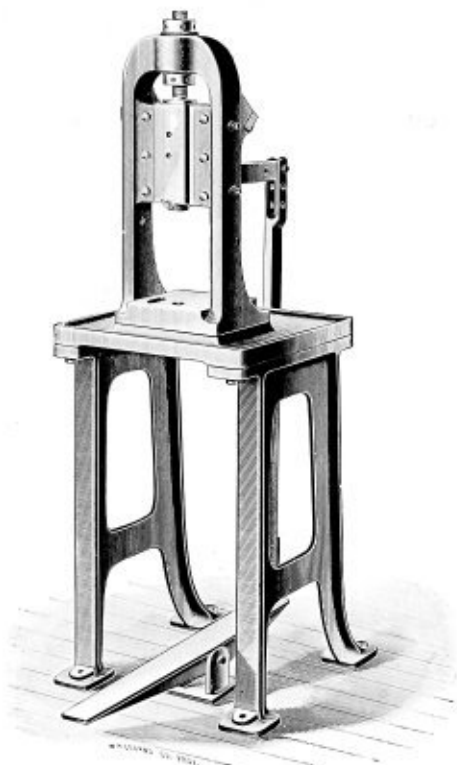
The standard press shown in above cut is supplied with wood treadle, as shown in cut on page 12 F. The miniature cut on this page shows the press mounted on iron table. Cost of table and legs, \$10.00 additional.



No. 1 Knuckle-Joint Foot Press

With Weighted Lever. (1246)

Weight, 325 pounds. Price, \$.....

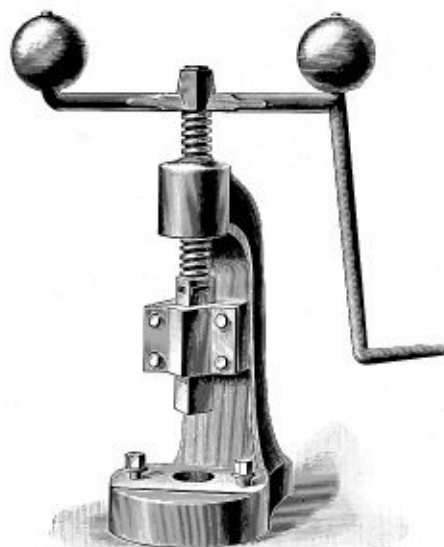


Knuckle-Joint Foot Press. (1808)

FOR SUB-PRESS WORK.

This press is designed to receive small sub-presses and dies, and is especially adapted for blanking out the delicate pieces used by jewelers and opticians. The vertical adjustment for tools is obtained by means of screw and jam nuts shown at the top of press. The height from floor to bed of press when mounted as shown in the illustration, is $33\frac{1}{2}$ inches.

Stroke,	$\frac{3}{4}$ inches
Distance between uprights,	8 "
Distance from bed to bottom of slide when down,	8 "
Size of table,	20 x 20 "
Opening through bed,	diameter, 1 "
Weight, without table,	220 pounds
Price, without table,	\$
Weight, with table,	500 pounds
Price, with table,	\$

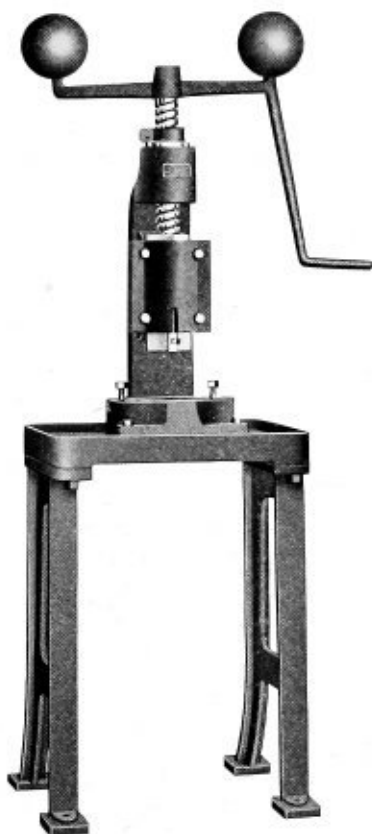


Hand Screw Press. (2739)

We make to order a variety of Hand Screw Presses in addition to those described below. We put in bronze bushing and steel screws with double or triple thread, as may be desired.

NUMBER OF PRESS,	No. 1 2739	No. 2 3343	No. 3 2540	No. 4 3344	No. 5 3345
Height from bed to ways, inches,	7½	7	9¼	9¼	11¼
Diameter of hole in bed, "	2¼	3½	3	4	2½
Depth of throat from center of slide, "	3¼	5	6¼	8	4
Width of bed,	11½	14	12¼	16	14
Distance between die-bed bolts, "	9	10	9	10	10
Diameter of screw,	2	2¼	2¼	2½	2½
Double thread with lead of	1	1	1	1½	1½
*Square slide,	2	2½	2½	3	3
Finished weight, pounds,	420	600	700	800	1000
Price,	\$				

*Bottom of slide is left blank unless ordered special.

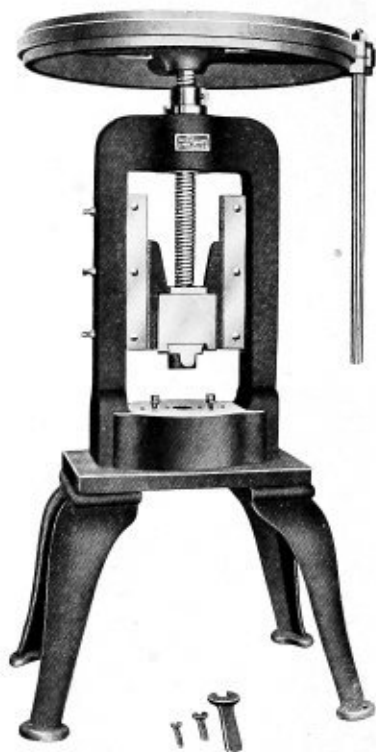


No. 1 Screw Press on Table. (3310)

The above half tone shows the No. 1 Screw Press mounted on table, and the screw fitted with adjustable stop collar. The principal dimensions are as follows:

Maximum stroke,	5 inches
Bed to bottom of slide when up,	6 $\frac{1}{2}$ "
Bed to bottom of slide when down,	1 $\frac{1}{2}$ "
Bed to bottom of guide,	6 $\frac{3}{4}$ "
Diameter of bed,	12 "
Diameter of steel screw,	2 $\frac{1}{2}$ "
Size of slide (square),	3x3 "
Double thread with lead of,	1 $\frac{1}{2}$ "
Center of slide to upright,	3 "
Oval hole in bed, front to back by right to left,	3x5 "
Size of table,	20x24 "
Floor space,	40x40 "
Weight of machine on table,	766 pounds
Price,	8.

T slot for die-bed bolts runs from side to side of bed.



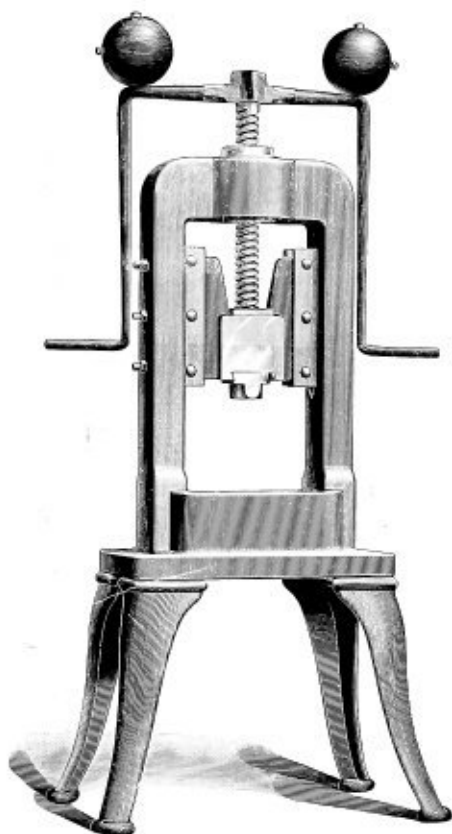
Arch Screw Press. (3167)

WITH HAND WHEEL AND ADJUSTABLE HANDLE.

* For tool room use. This machine is also built with lever and weight balls. The screw is fitted with an adjustable stop collar.

*Stroke of slide,	9 inches
Top of bed to ways,	7 "
Top of bed to slide when down,	6 "
Distance between uprights,	15 "
Top of bed, front to back,	16 "
Opening in bed,	diameter, 2½ "
Distance between die-bed bolts,	4, 7 or 10 "
Diameter of steel screw,	2½ "
Double thread with lead of	1½ "
Diameter of wheel,	41¼ "
Weight of wheel,	400 pounds
Floor space, over all,	18x48 inches
Weight of press,	2130 pounds
Price of press,	8

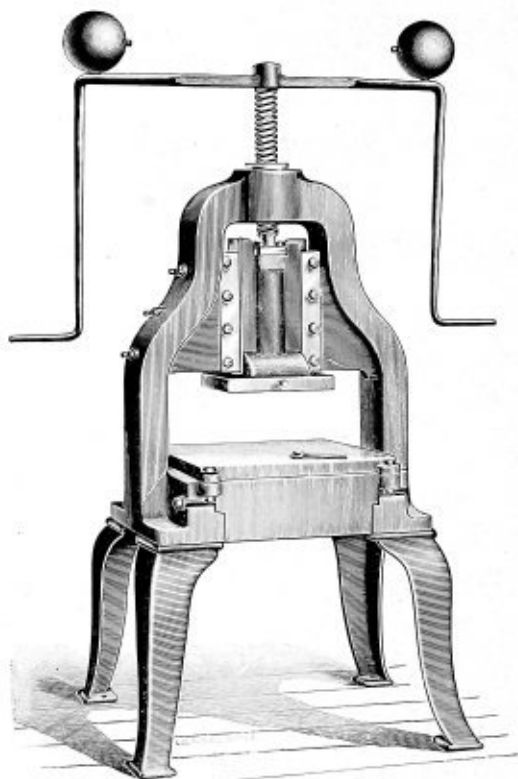
*Slide may be had with set-screw and hole instead of dovetailed for punch holder, if desired.



Arch Screw Press. (412)

This press has been especially designed to supply a first-class screw press for tool room use in testing new dies. It is also built with wheel and arm. An adjustable stop nut is furnished when desired.

Stroke,	4½ inches
Distance from bottom of guides to bed,	11 "
Distance between uprights,	15 "
Width of bed,	10 "
Opening in bed,	diameter, 3 "
Diameter of steel screw,	2½ "
Double thread with lead of	1½ "
Weight,	1750 pounds
Price,	\$



Special Arch Screw Press. (1837)

This press has been designed to cover a much wider range of work than the one illustrated upon page 25 F of this circular, and is especially useful for testing and fitting large dies. The bed is fitted with false piece at front, which can be removed, making a gapped bed with opening 22 inches wide. The following are the principal dimensions of machine :

Distance between uprights,	30 inches
Distance from bed to bottom of slide, when slide is up,	11 "
Extreme motion of slide,	9 "
Opening through bed, left to right,	22 "
Opening through bed, front to back,	16 "
Size of bottom of slide,	15 x 12 "
Size of bolster plate,	27 x 26 "
Thickness of bolster plate,	2 "
Weight complete,	3,200 pounds
Price,	\$

Special Arch Screw Press. (3136)

Is built from the same pattern and has the same dimensions as the machine illustrated on page 26 F, but the bed is built solid (i. e., without false piece at front), or will be made with hole, as specified. Presses No. 1837 and No. 3136 may be had with hand-wheel and handle, or weighted lever.

Special No. 2 Foot Press. (See page 7 F) (3093)

Is arranged for steam circulation in the upright and in the base. It is built for work on celluloid, or where the tools must be kept warm. Furnished only with wood treadle. The principal dimensions are as follows: Top of bed to gate when up, 7 inches; center of gate to upright, 3 inches; top of bed to ways, 8 inches; bed, right to left, 14 inches; center of bed to front, $3\frac{1}{2}$ inches; stroke, $2\frac{1}{2}$ inches.

Weight, 256 lbs.

Price, \$.....



Special Foot Press. (1300)

Size of bed, front to back, 11 inches, right to left, $5\frac{1}{4}$ inches; distance center of slide to upright, $3\frac{3}{4}$ inches; distance bed to gate when down, $2\frac{1}{2}$ inches; distance between die-bed bolts, 7 inches; stroke, 1 inch.

Weight, 160 lbs.

Price, \$.....



Special Foot Press. (1273)

Bed, 10 inches wide; distance from center of slide back to uprights, 6 inches; distance from bed to gate when down, $5\frac{3}{8}$ inches; distance between die-bed bolts, $6\frac{1}{2}$ inches; $\frac{5}{8}$ -inch die-bed bolts; $2\frac{1}{2}$ inch hole in bed.

Weight, 170 lbs.

Price, \$.....



Sprue Cutter. (1315)

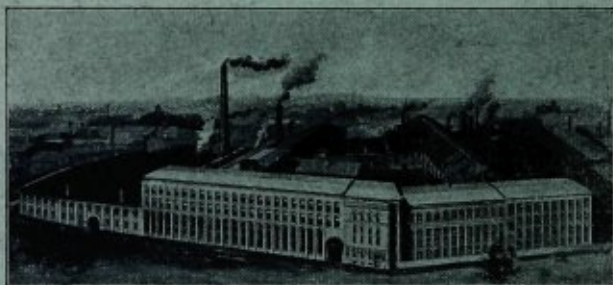
Is designed for cutting off sprues from small castings of brass, etc.; stroke of cutters is $1\frac{1}{2}$ inches; width of cutters, 1 inch; depth of throat, 10 inches.

Weight, 450 lbs.

Price,.....

SPRINGFIELD PRINTING
AND BINDING COMPANY,
SPRINGFIELD, MASS.

THE WATERBURY FARREL FOUNDRY & MACHINE CO.



WORKS: WATERBURY, CONNECTICUT, U.S.A.

ILLUSTRATED CATALOGUES

- A** Automatic Rivet and Nut Machinery. Thread Rolling Machines.
- B** Machinery for manufacturing Hinges and Butts from Sheet Steel and Brass.
- C** Cartridge Machinery for making Metallic Cases, Bullets, Paper Shot Shells.
- D** Drop Presses. Automatic Drop Hammers for forging.
- F** Foot Presses and Screw Presses.
- G** Chain Draw Benches for Tubing and Rods. Rod Rolls. Bull Blocks.
- H** Hydraulic Draw Benches. Presses. Accumulators. Power Pumps. Valves.
- L** Lathes for Burnishing, Knurling, Trimming, and Spinning Sheet Metal.
- M** Single Acting, Open Back, Power Presses. Automatic Feeds.
- N** Blanking and Drawing Presses, Arch and Pillar Patterns. Embossing and Knuckle Joint Presses.
- P** Double Acting Power Presses. Crank, Cam, and Toggle Action Presses.
- R** Rolling Mills for Rolling Sheet Brass, Copper, Steel, Tin Foil, etc.
- S** Shear Presses. Shearing Presses and Alligator Shears. Single and Gang Slitters. Trimmers.
- T** Finishing Machinery for Sheet Brass, German Silver, etc. Furnaces.
- X** Special and Miscellaneous Machinery.
List of Gear Patterns. Price List of Shafting and Pulleys.