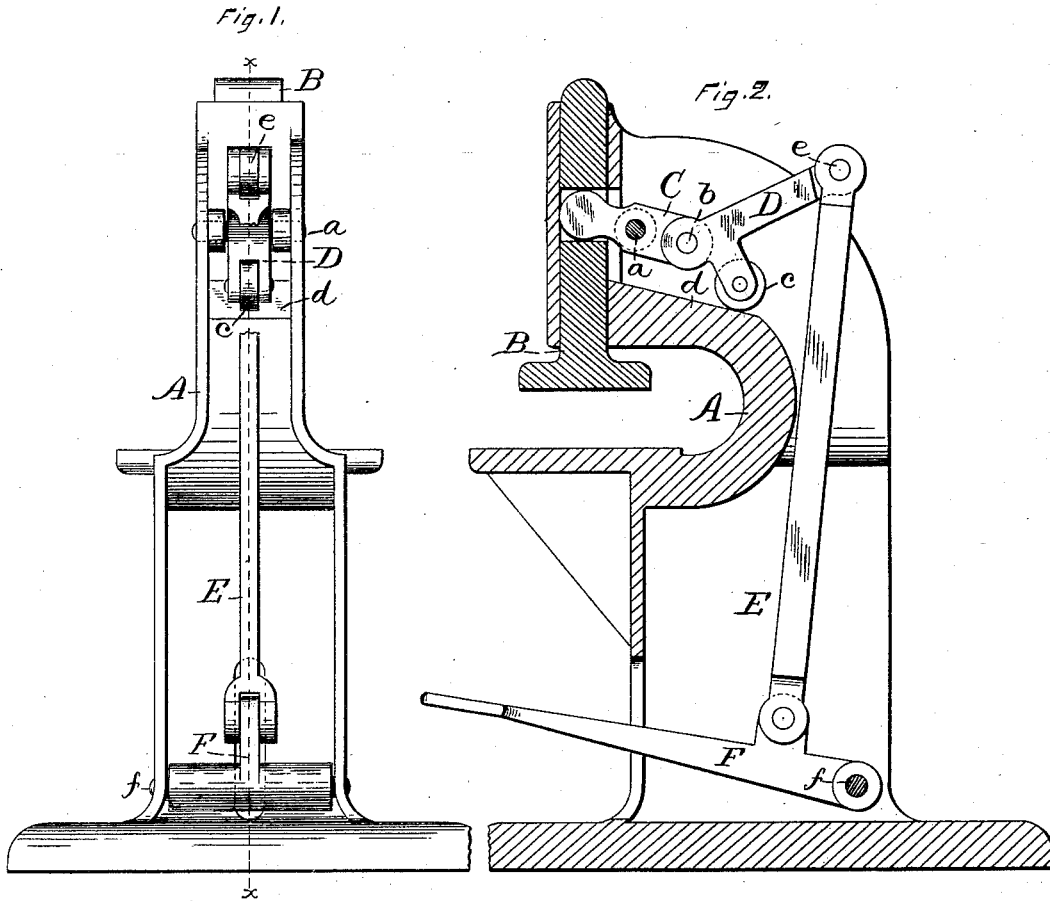


(No Model.)

W. J. BAYRER.
FOOT PRESS.

No. 346,141.

Patented July 27, 1886.



Witnesses.
John Edwards Jr.
W. H. Wilby

Inventor.
William J. Bayrer.
By *James Shepard* Atty.

UNITED STATES PATENT OFFICE.

WILLIAM J. BAYRER, OF SOUTHWINGTON, CONNECTICUT, ASSIGNOR TO THE
PECK, STOW & WILCOX COMPANY, OF SAME PLACE.

FOOT-PRESS.

SPECIFICATION forming part of Letters Patent No. 346,141, dated July 27, 1886.

Application filed February 15, 1886. Serial No. 191,936. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. BAYRER, a citizen of the United States, residing at South-
ington, in the county of Hartford and State
15 of Connecticut, have invented certain new and
useful Improvements in Foot-Presses, of which
the following is a specification.

My invention relates to improvements in
foot-presses and analogous machines; and the
10 object of my invention is to provide simple
and powerful means for moving the press-
slide.

In the accompanying drawings, Figure 1 is
a rear elevation of my press, and Fig. 2 is a
15 vertical section of the same partly in eleva-
tion, on line *xx* of Fig. 1.

My invention is applicable to presses, squar-
ing-shears, and analogous machines having a
reciprocating slide, and a foot-treadle or lever
20 for operating said slide.

In the drawings I have illustrated my im-
provement as applied to a foot-press.

The frame A and slide B of the press may
be of any ordinary form and construction.
25 The slide B is operated by the lever C, Fig. 2,
pivoted to the frame at *a*, and having one end
rest within a mortise in the slide B in the or-
dinary manner. To the opposite end of the
lever C, I secure an angle-lever, D, the same
30 being connected to said lever C by means of a
pintle-joint, *b*, Fig. 2. The short arm of the
angle-lever is provided with a friction-roller,
c, which roller bears upon a stationary inclined
table or track, *d*, formed on or made a part of
35 the frame. The rear end of the long arm of
the angle-lever D is connected by a joint, *e*,
to the upper end of a rod or pitman, E, while
the lower end of said pitman is connected with
the foot-treadle F. Said treadle is pivoted
40 to the frame by the pin or shaft *f*. The treadle
F and pitman E constitute the mechanism for
operating the angle-lever D. A spring may
be arranged to throw the treadle up and hold
it in position as in prior foot-presses. By

pressing the treadle F downward the rear end 45
of the long arm of the angle-lever D is also
pulled downward. This action forces the short
arm of said lever forward and moves the roller
in the same direction up the inclined table or
5 track *d*, thereby elevating the pintle *b* and con- 50
nected ends of the levers C D, and forcing the
forward end of the lever C and the press-slide
B downward for action. The first part of the
downward stroke or movement of the slide
will be faster, relatively to the movement of 55
the treadle than the latter part of its stroke.
At first the swinging of the angle-lever D on
its fulcrum (the axle of roller *c*) acts to move
the press-slide in connection with the upward
60 movement of said fulcrum as the roller rides
up the inclined table, but the nearer the short
arm of the angle-lever D approaches a verti-
cal position the less will be the movement of
the slide. After said angle-lever passes a
65 given point the further downward movement
of the slide is dependent upon the angle-lever
riding up the inclined table.

A prior patent to myself shows hand-shears
with an angle-arm formed on one of the han-
dles and provided with a roller in the short 70
arm thereof, which roller is adapted to ride
upon one side of the opposite handle, and the
same is hereby disclaimed.

I claim as my invention—

The combination of the frame having the 75
stationary inclined table or track *d*, the slide
B, the lever C, pivoted to the frame for oper-
ating said slide, the angle-arm D, connected to
one end of the lever C, and having the roller
c at the end of the short arm of said angle-le- 80
ver in position to ride over said stationary
track, and mechanism for operating said an-
gle-lever, substantially as described, and for
the purposes specified.

WILLIAM J. BAYRER.

Witnesses:

E. E. STOW,
A. M. LEWIS.