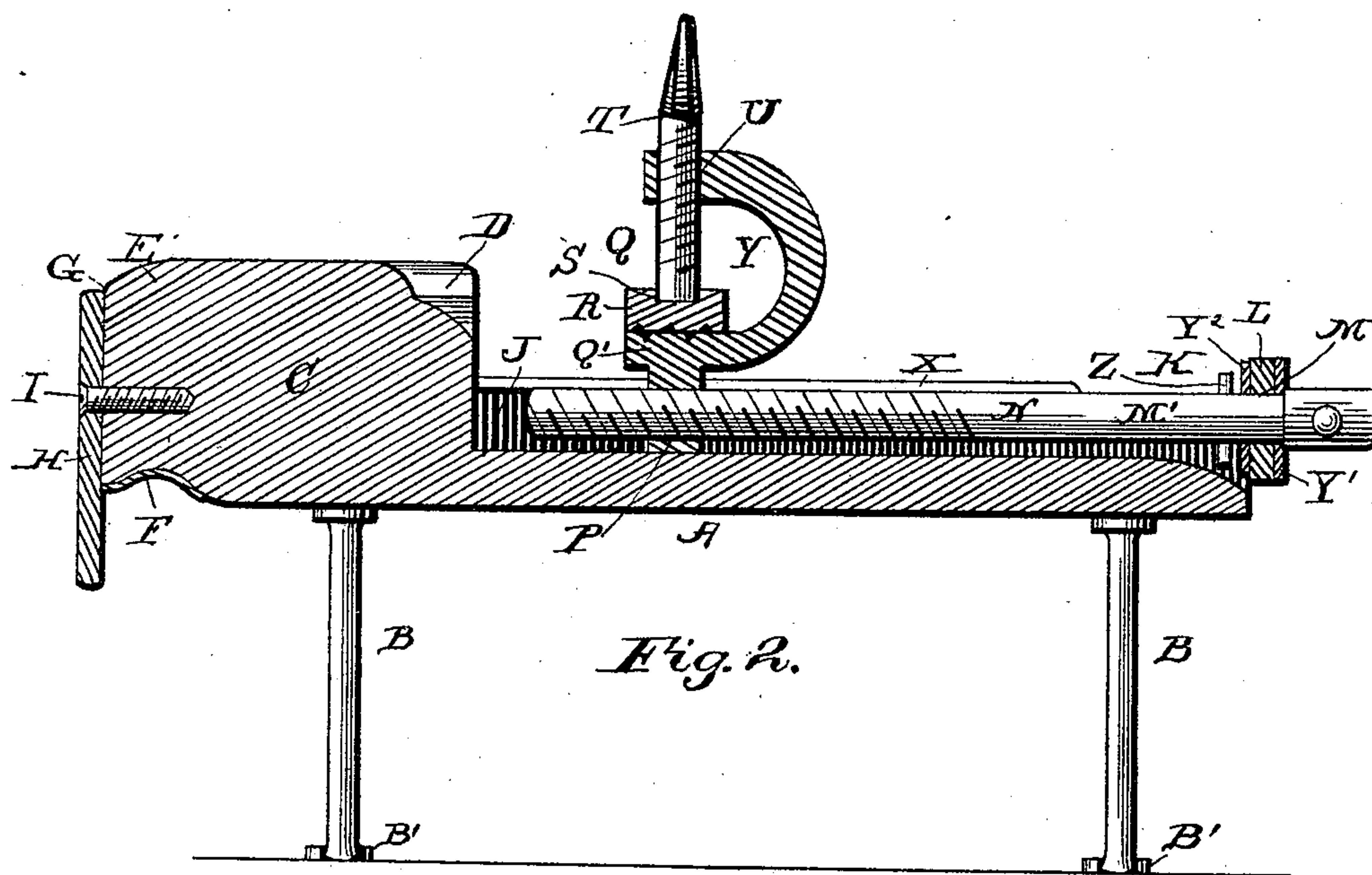
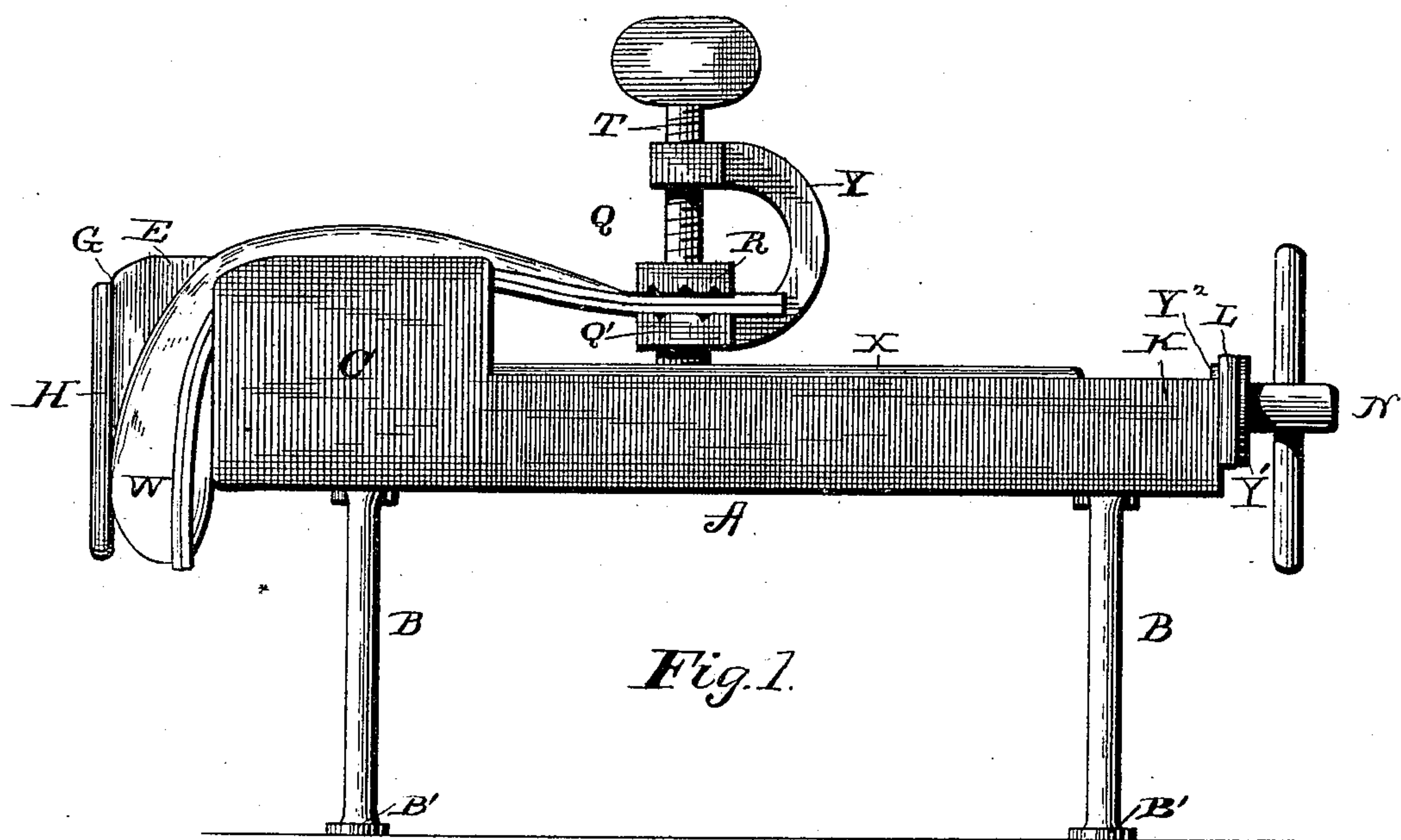


E. W. JACKSON.
CRUPPER PRESS AND FORMER.

No. 345,143.

Patented July 6, 1886.



WITNESSES

Berj. Triggitt,
Phillips.

INVENTOR

E. W. Jackson
by Anderson & Smith
ATTORNEYS

(No Model.)

2 Sheets—Sheet 2.

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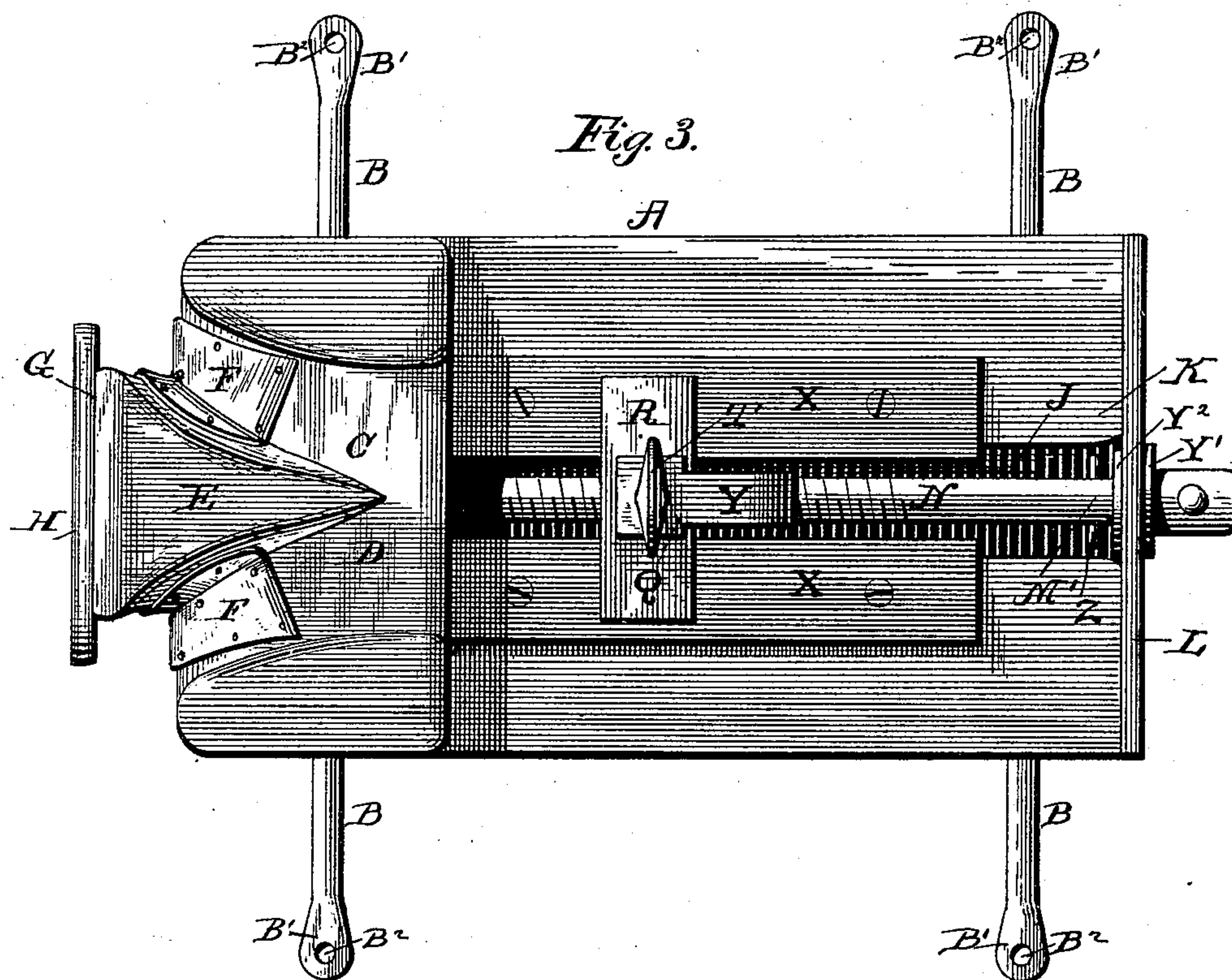
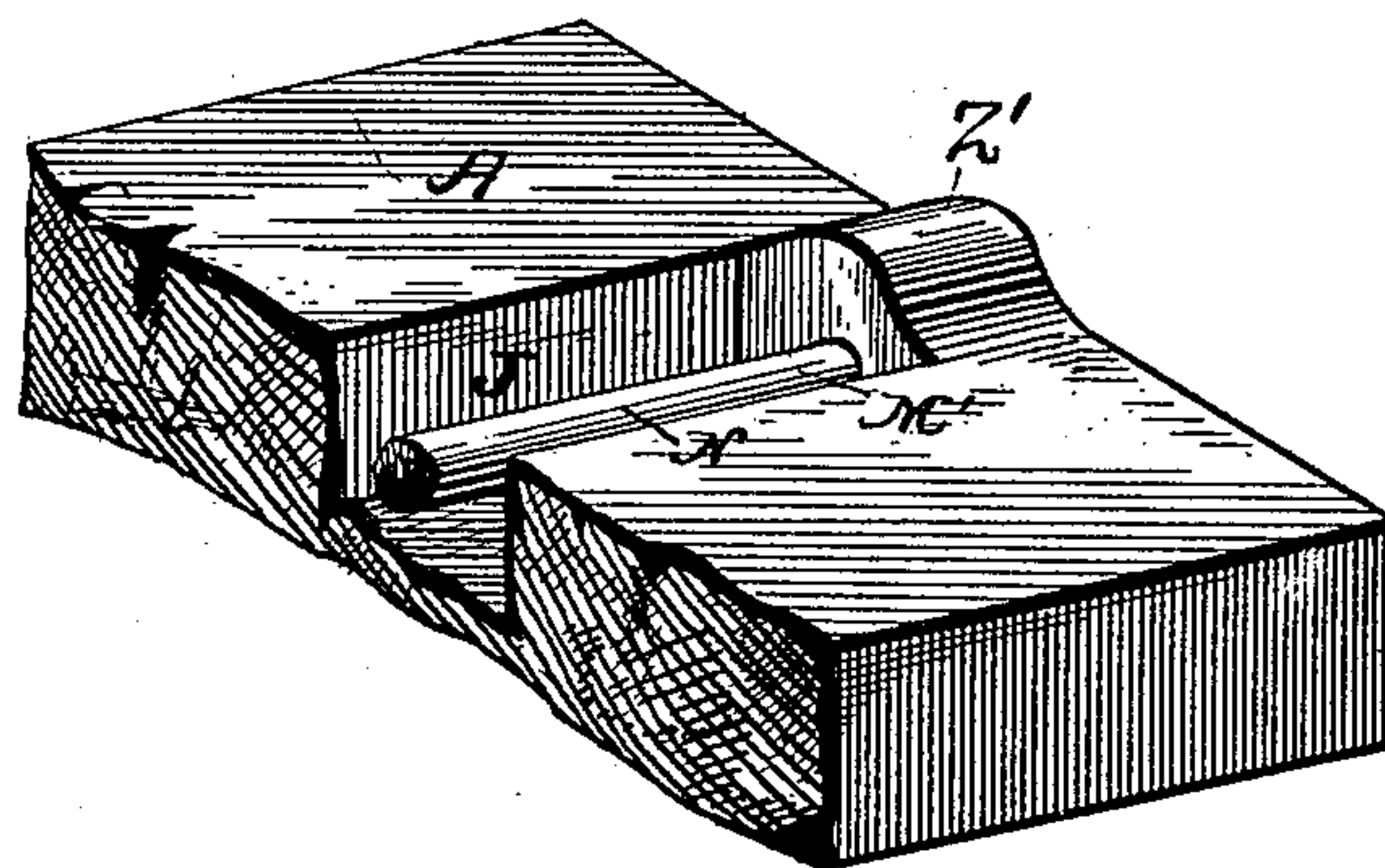


Fig. 4.



WITNESSES

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Phillips.

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UNITED STATES PATENT OFFICE.

EDWARD W. JACKSON, OF MOUNT KISCO, NEW YORK.

CRUPPER PRESS AND FORMER.

SPECIFICATION forming part of Letters Patent No. 345,143, dated July 6, 1886.

Application filed January 30, 1886. Serial No. 190,315. (No model.)

To all whom it may concern:

Be it known that I, EDWARD W. JACKSON, a citizen of the United States, residing at Mount Kisco, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Crupper Presses and Formers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a side elevation. Fig. 2 is a vertical longitudinal section. Fig. 3 is a top view. Fig. 4 is a detail view.

My invention has relation to presses and formers for pressing and forming cruppers for harness; and it consists in the construction and novel combination of parts, as will be hereinafter set forth, and pointed out in the claims.

Referring by letter to the accompanying drawings, A designates the bed-plate of the press and former, which is mounted on suitable legs, B, having feet B', provided with screw-holes B², through which screws are to be passed to secure upon the work-bench or other desired support or stand. At one end the bed-plate A is made much thicker for a portion of its length, as at C, than throughout the remaining portion of its length, and this enlarged portion is grooved, as at D, around a horizontally-projecting arm, E, which is formed integral with the enlarged or thickened portion C. The groove D is partially lined with leather, F, which is secured in place by tacks. The rear face or end of the arm E is vertical, and to this vertical face G is secured a metal guard-plate, H, which is similar in outline to the end of the arm E, but is considerably greater in area than the end of the arm E, so that the guard-plate H, which is secured in place by a screw, I, forms a flange along the curved line of the face G of the arm E. The bed-plate A is provided with a longitudinal middle groove, J, in its upper face, which extends from the inner end of the thicker portion C of said bed-plate to the thinner end K of the bed-plate. This end K is provided with a metal bar, L, which is secured to the bed-plate by screws, so as to project slightly above the upper face of

the bed-plate A. At its middle portion the metal bar L is provided with a hole, M, in which an unthreaded portion, M', of the jack-screw N rotates when said screw N is turned. The jack-screw N passes through a threaded eye, P, on the under face of the clamp-frame Q, said eye P extending down into the groove J, so that when the screw N is operated the clamp-frame Q will be caused to move either toward or away from the thicker portion of the bed-frame, as may be necessary or desirable in operating the machine. The clamp-frame Q is provided with an integral jaw, Q', near its lower side, and this jaw Q' is grooved longitudinally in its upper face, in order that the leather may not slip when in place in the clamps.

R is a second removable plate, grooved longitudinally in its lower face, and provided with a depression, S, in its upper face, for the reception of the point of the thumb-screw T, seated in a threaded hole, U, in the arm Y of the clamp-frame Q.

W is the crupper-blank, which is first stitched and stuffed, placed in the groove D, the ends of the blank then brought together and secured between the jaws of the clamp-frame. The jack-screw N is then turned, and the clamp-frame is caused to move away from the grooved former and draw upon and stretch the moist leather into the desired shape, after which the leather is permitted to dry in the former. When removed from the former after having been dried therein, the crupper will always retain its shape. The wooden portion of the crupper-press is preferably made of oak; but any other hard wood may be used instead. Along the side of the middle longitudinal groove I provide metal wear-plates X, which extend from the thicker portion of the bed-plate to within a short distance of the flange at the end of the plate. The jack-screw N is provided on each side of the flange, at the end thereof, with a loose collar, Y' Y², the inner one, Y², being confined to its place by a cross-pin, Z.

Instead of the flange-plate L, a box-bearing, Z', is used, and is preferable.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, with the longitudinally-

grooved bed-plate provided with the grooved
former at one end, of the jack-screw in the
longitudinal groove, the clamp-frame with a
grooved lower plate and thumb-screw, and the
5 grooved indented upper plate, substantially as
specified.

2. The combination, with the bed-plate hav-
ing the thicker grooved portion C, provided
with the projecting arm, of the guard-plate
10 secured to the vertical face of said projecting
arm, the clamping-frame, and suitable means
for moving the same, substantially as specified.

3. The combination, with the bed-plate hav-
ing the horizontal middle groove provided
15 with metal wear-plates at its sides, of the hori-

zontal jack-screw, and the clamp-frame having
the threaded eye at its lower side and the
thumb-screw in its upper end, substantially as
specified.

4. The combination, with the horizontal 20
grooved bed having the crupper-former at one
end thereof, of the horizontal jack-screw and
the clamping-frame connected therewith, sub-
stantially as specified.

In testimony whereof I affix my signature in 25
presence of two witnesses.

EDWARD W. JACKSON.

Witnesses:

ALVARO J. ADAMS,
GEORGE H. KNAPP.