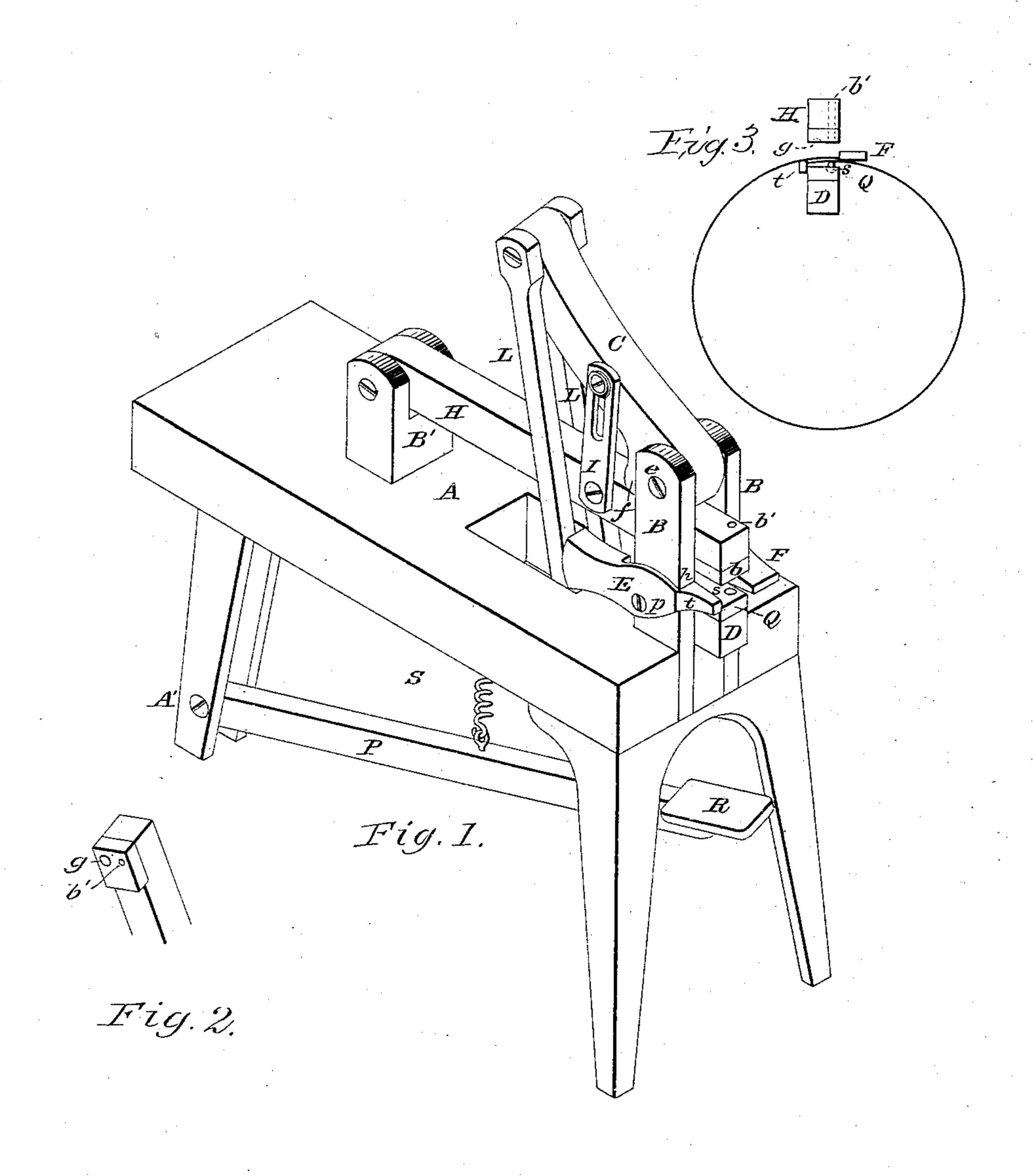
(No Model.)

G. W. BRADLEY.

RIVETING MACHINE.

No. 375,725.

Patented Jan. 3, 1888.



Witnesses:

Frank D. Boomis Od. K. Horthington. Inventor:

Gilbert W. Brudley,
By Franklin Doot, atty.

## United States Patent Office.

GILBERT W. BRADLEY, OF SUNDERLAND, VERMONT.

## RIVETING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 375,725, dated January 3, 1888.

Application filed May 10, 1887. Serial No. 237,702. (No model.)

To all whom it may concern:

Be it known that I, GILBERT W. BRADLEY, of Sunderland, in the county of Bennington and State of Vermont, have invented an Im-5 proved Riveting-Press, of which the subjoined description, in connection with the accompanying drawings, constitutes a specification.

The machine is intended to be used in riveting together the ends of metallic bands or 10 hoops. It is fully shown in perspective in Figure 1 of the drawings. Fig. 2 shows the under side of the punching and heading die; and Fig. 3 exhibits the method of using the machine, and shows the relative positions of the two guide-

15 cheeks E and F. The mechanism is mounted on frame A, and consists of the two principal punching and heading dies band Q. The die Q may more properly be called an "anvil," and is imposed 20 on the block D. Its upper surface consists of a plane face, with the possible exception of a depressed circular seat, s, whereon the rivethead is laid point upward. Pivoted to block B' is the lever H, the fore end of which carries 25 the punching and heading die or plate b. Said plate is better shown in Fig. 2, the end of the lever being inverted for that purpose. It is perforated with a punching-hole, b', which works over the point of the rivet in precisely 30 the same way as the sheet-iron worker's punch operates. More properly it is a die-plate, the rivetitselfforming the punch. Close beside this is the countersunk header g, which is merely a concave depression designed to head down 35 the protruding point of the rivet and leave a smooth convex finish. The two parts D and H lie between the two cheeks B B, between which the cam-lever C is also pivoted at e. The rear end of lever C is connected with foot-40 lever P beneath the machine by means of rods L L. Foot-lever P is pivoted to rear leg of frame at A', and is connected with platform of frame by retractile spring S. The slotted link I connects the cam-lever C with the lever 45 H, and performs the office of lifting lever H

against the anvil Q. The office performed by the guide-cheeks E

whenever the cam-lever C is pushed up by the

retraction of spring S. The depression of

foot-pad R effects the closing of the header b

and F is shown in Fig. 3, and will appear by describing the use of the machine. Guidecheeks E and F are weighted at their rear ends, so that they normally bring a shoulder up against cheeks BB. In use the hoop or band 55 J is first cut to a definite length. A rivet is then laid on spot s, head down. One end of the band is then set in between the jaws of the header and brought into contact with the left guide cheek, t. The other is laid in over guide 60 cheek t and abuts against guide-cheek F. Header b is then brought down over the rivet, which is forced through the metal, the chips passing up through aperture b'. Thus the hole is made and the rivet inserted therein. 65 Then the hoop is moved a little to the left and the lever again brought down, whereby the rivet is headed under header g.

The die b and anvil Q are old; but the swinging or pivoted guide-cheeks E and F are 70 thought to be new, and the function they perform in connection with the riveting jaws is as follows: When at rest, the guide-cheek t is at an elevation, where the end of the hoop carried under cheek F will readily find abut- 75 ment against it. The other end of the hoop or band will of course rest on top of cheek t at the right elevation to allow it to clear the top of the rivet, and its end will find abutment against inner edge of guide-cheek F. When 80 the header is brought down, the guide t yields or descends, as it also does when the rivet is headed by the second movement.

I therefore claim as my invention—

The combination of the vertically-movable 85 header b, having die-perforation and heading former or countersink, and the anvil-plate beneath, having a spot or seat for the rivet-head, with the lateral swinging guide cheeks or stops Eand F, and means for imparting to the header 90 a reciprocal vertical movement, as and for the purposes specified.

In testimony whereof I have hereto set my hand, at Sunderland, Vermont, this 23d day

of August, A. D. 1886.

GILBERT W. BRADLEY.

In presence of— FRANKLIN SCOTT, EMILY SCOTT.