

C. Pratt,

Crimping Leather,

N^o 37,242.

Patented Dec. 23, 1862.

Fig. 1.

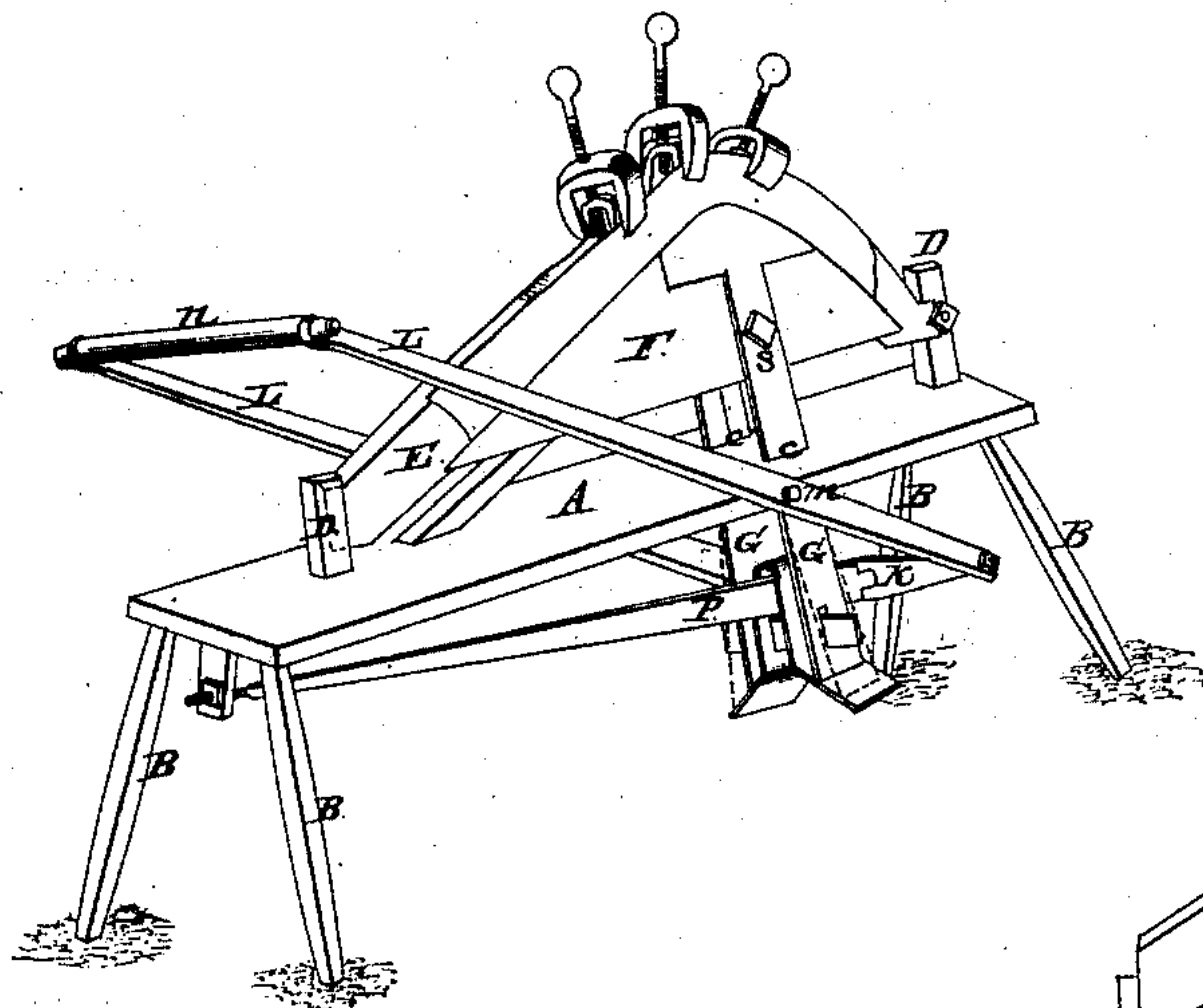


Fig. 5.

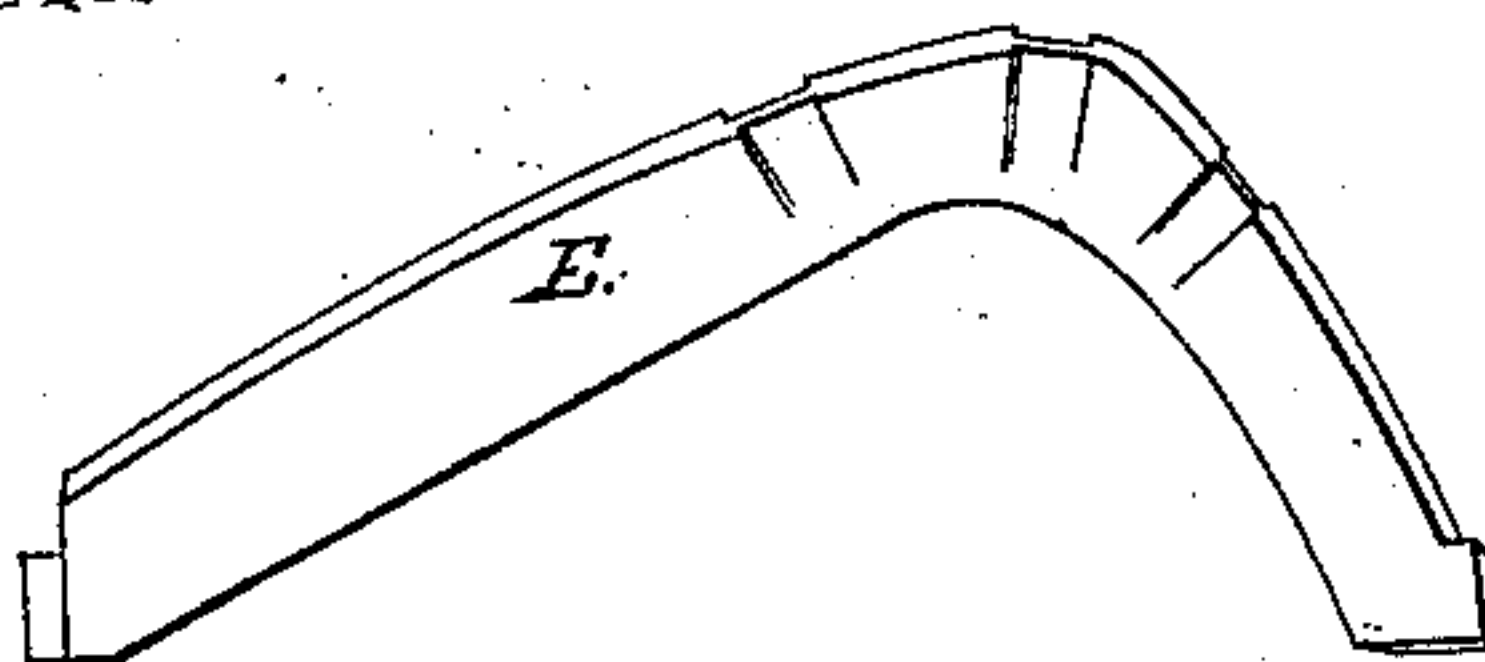


Fig. 2.

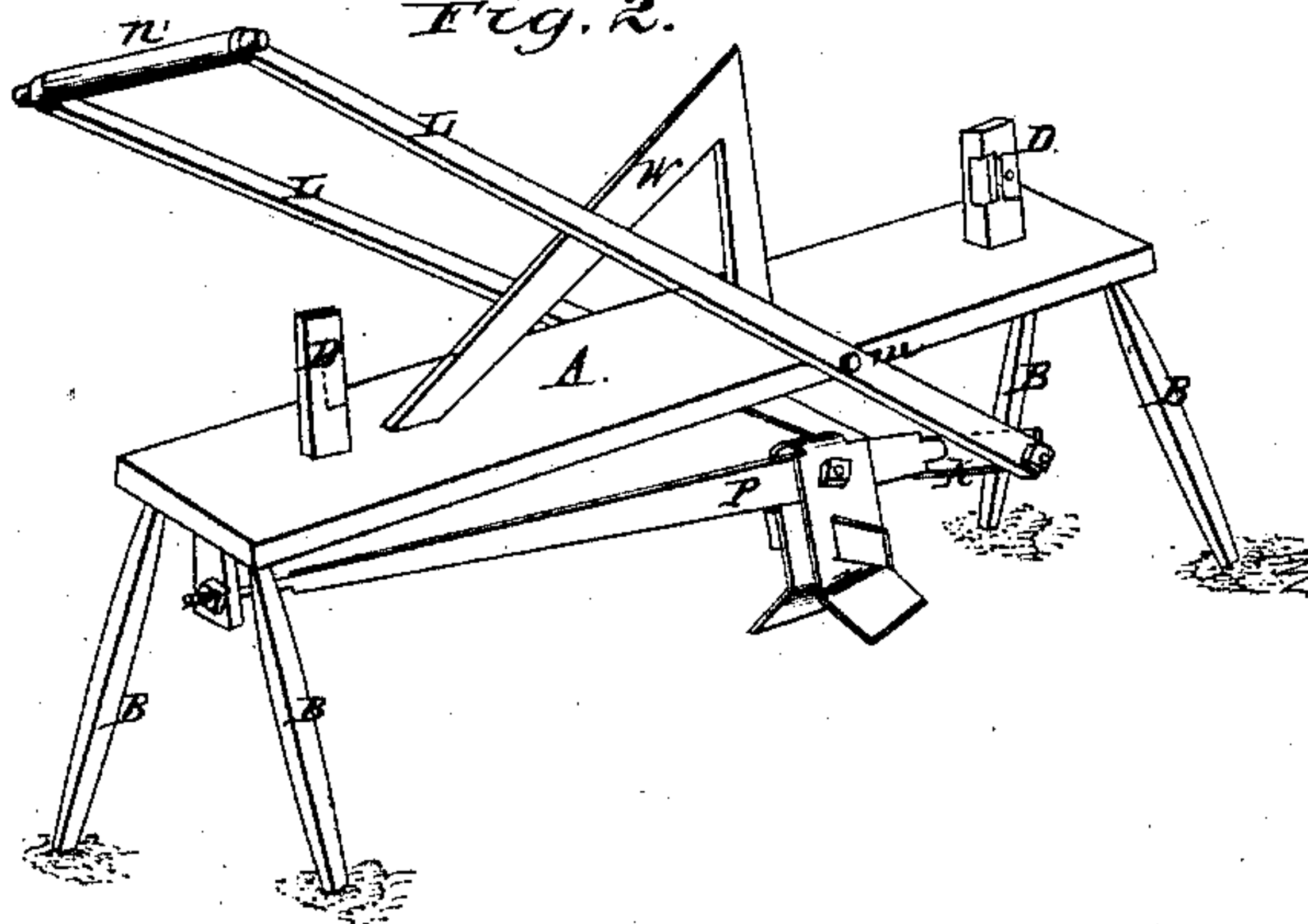
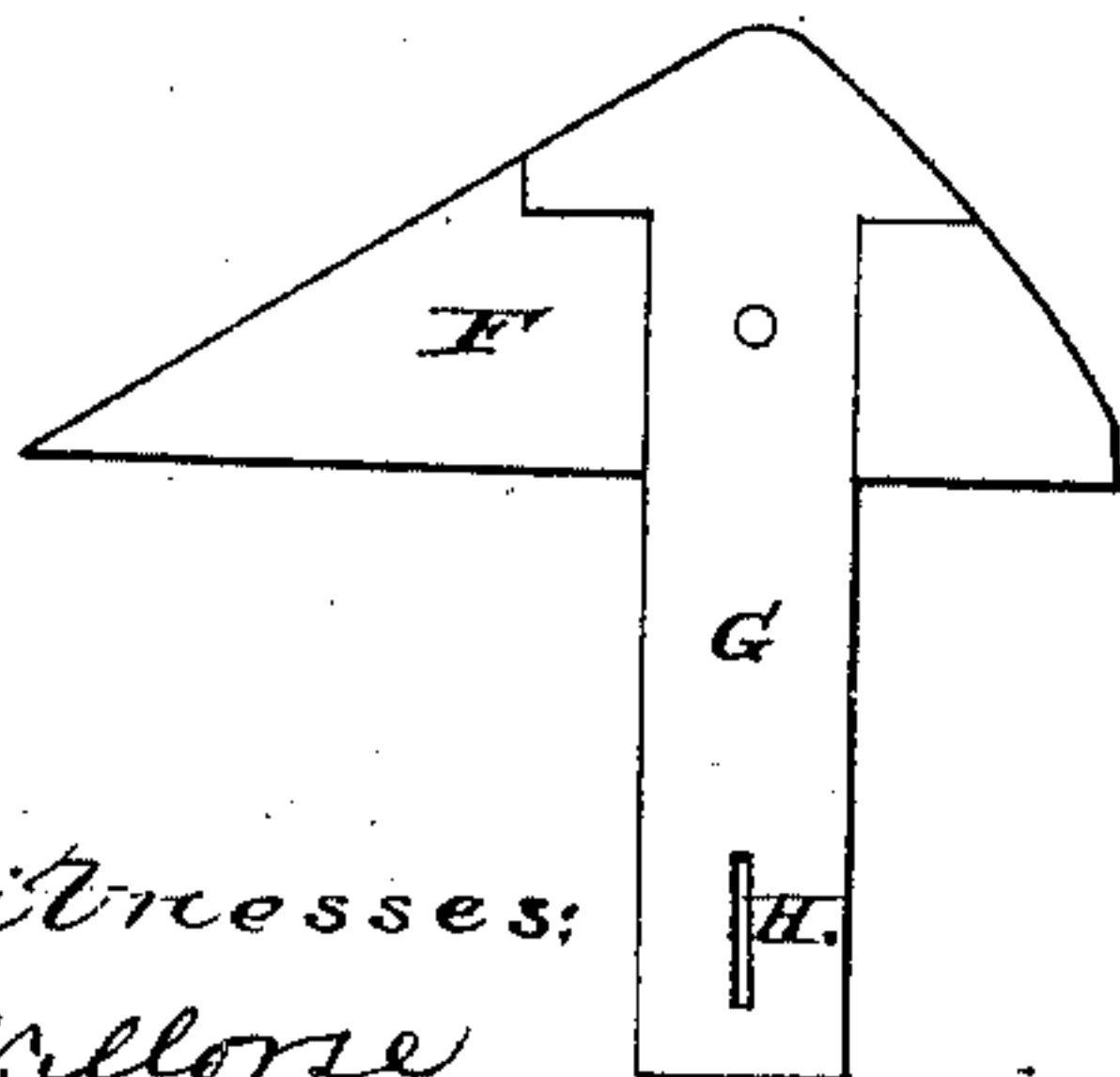
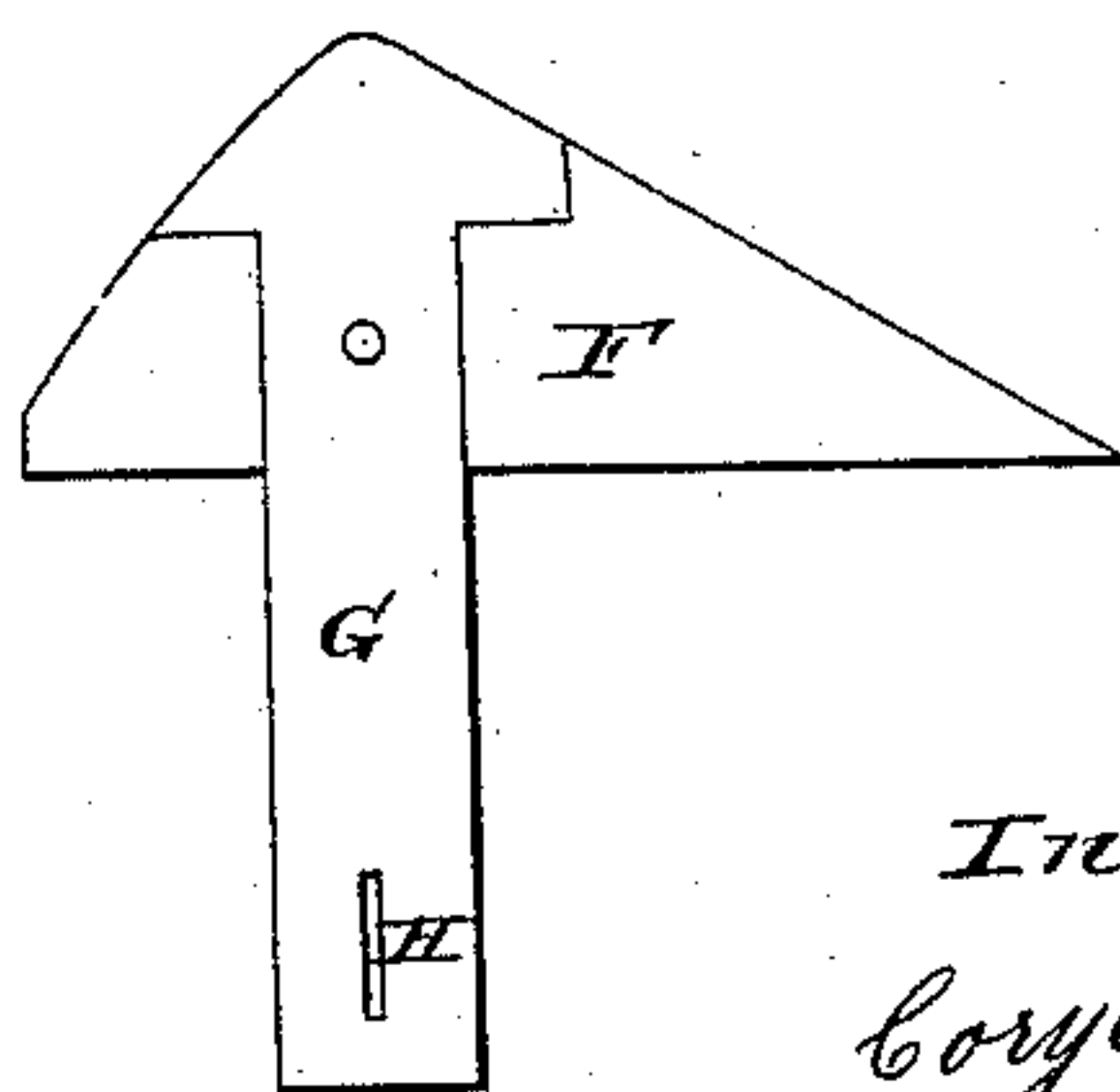


Fig. 3.



Witnesses:
A. M. Morse
Charles Morse

Fig. 4.



Inventor:
Corydon Pratt.

UNITED STATES PATENT OFFICE.

CORYDON PRATT, OF PRATT'S HOLLOW, NEW YORK.

IMPROVED BOOT-CRIMPING MACHINE.

Specification forming part of Letters Patent No. 37,242, dated December 23, 1862.

To all whom it may concern:

Be it known that I, CORYDON PRATT, of Pratt's Hollow, in the county of Madison and State of New York, have invented a new and useful Improvement in Implements or Devices for Crimping Boots; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My improvements consist, first, in a new and useful combination of mechanism whereby the jaws, after having given the requisite amount of pressure to the leather by first acting upon the curved portion at a point denominated the "instep" with a force greater than any other point, and gradually diminishing the power as it is extended outward, whereby a uniform thickness is given to the leather, and during the backward movement of the jaws the pressure upon the leather is entirely removed, &c.; and my improvement also consists in what I denominate an "expander," interposed between two springs, the opposite ends of said springs having a rigid connection with the jaws.

The several parts and their relative relation I will now proceed to describe.

The platform A may be made of an ordinary plank and supported upon legs B. Through said plank or platform, as shown at C, are two mortises about two and a half inches in length by one inch in width. Said mortises are separated by a portion of the platform about two inches in width.

D D represent two studs, provided with a side mortise of suitable form to receive the ends of the "former" E and retain it in position shown in Fig. 1.

F F represent the jaws, which may be made of cast metal. They are connected by a bolt, as shown at S, by means of which they may be held at any required distance apart.

G G represent two springs, ordinarily about twenty inches in length and two and a half inches in width by three-eighths of an inch in thickness. Said springs each have a mortise, as shown at H. Passing through said mortise is a short iron bar about one-third narrower than the mortise. Between the springs G G and near the lower end is a metallic plate resembling in form an inverted letter V, with

the lower ends turned outward at an angle of forty-five degrees, or, in other words, forming two inclined planes. Passing through the plate above described is an arm or lever, P, pivoted to said plate. The upper end thereof extends upward to the under side of the platform and is connected therewith by means of an eye in such a manner as to admit of end play. The opposite end of said arm or lever is provided with a cross-head, K, so mortised as to move up and down when acted upon by the hand-levers L. The levers L L are fulcrumed in *m* and connected at the upper ends by a bar, *n*. Above the platform and interposed between the jaws F F is a bent arm or guide, W, (shown in Fig. 2,) and designed to keep the jaws and springs in suitable position to be brought in contact with the former.

The operation of my improved crimp is as follows—viz.: The former E is held in position represented in Fig. 1; the leather is attached in the usual manner; the united levers L L are attached to the cross-head K, which is in turn connected to lever P. By depressing levers L lever P is moved upward and with it the V-shaped casting. The springs G G rest upon the inclined portion of said casting, which cause them to move outward as they are moved downward into position shown in dotted lines, Fig. 1, whereby the jaws are brought in contact with the leather, and instantly removed therefrom when moved in an opposite direction.

Having thus fully described my invention, what I claim as new and original, and desire to secure by Letters Patent, is as follows—viz:

1. The combination and arrangement of mechanism, substantially as described, whereby the jaws when moved downward or in the opposite direction from which the leather is forced onto the former are released from pressure on the leather, substantially as represented and described.

2. The V-shaped expander, provided with double inclined planes and acting upon the springs G G, in the manner substantially as set forth.

CORYDON PRATT.

Witnesses:

A. W. MORSE,
GARDNER MORSE.