

(No Model.)

E. EASTON.
GAGE FOR RIVETING MACHINES.

No. 500,869.

Patented July 4, 1893.

Fig. 1.

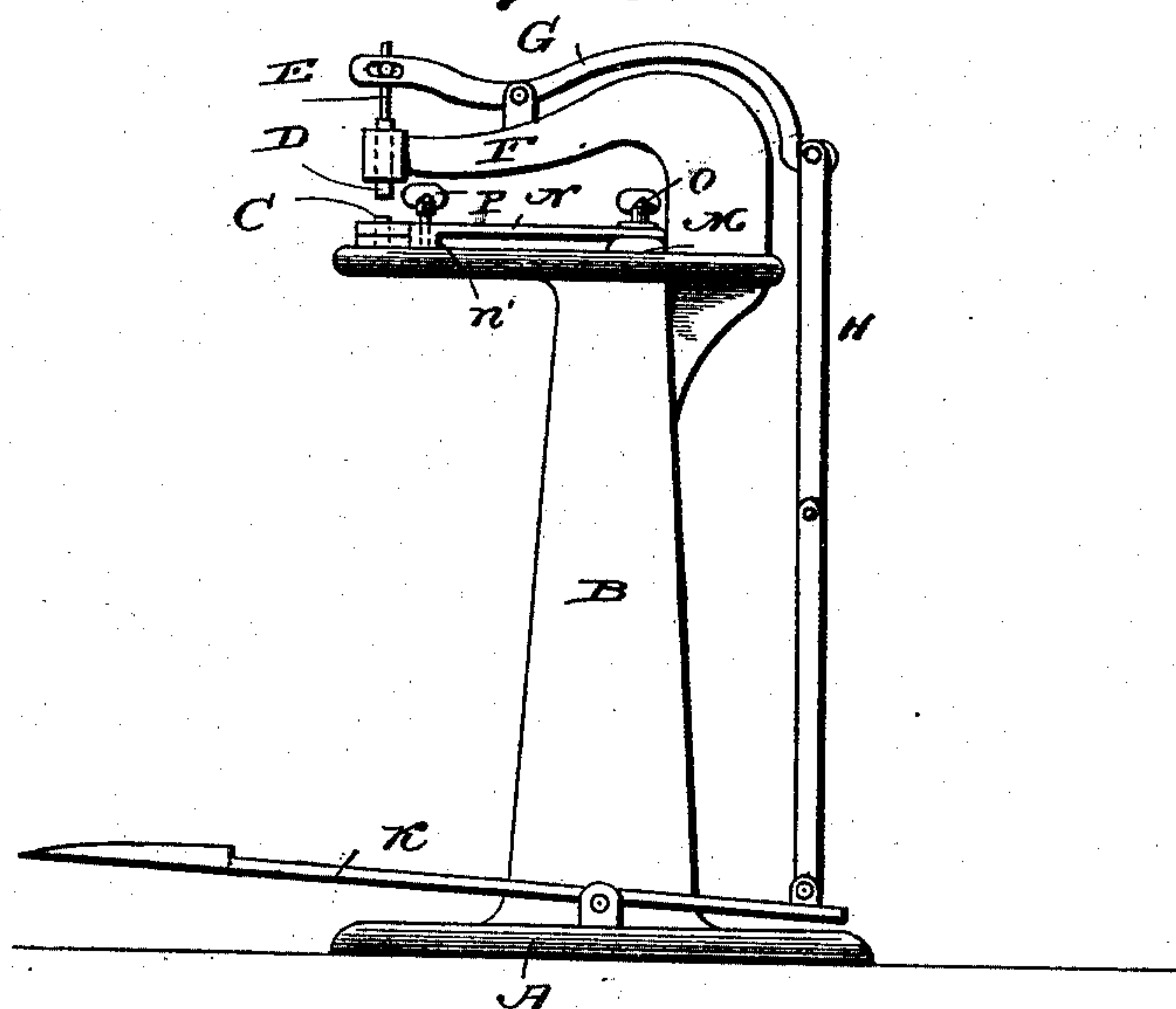
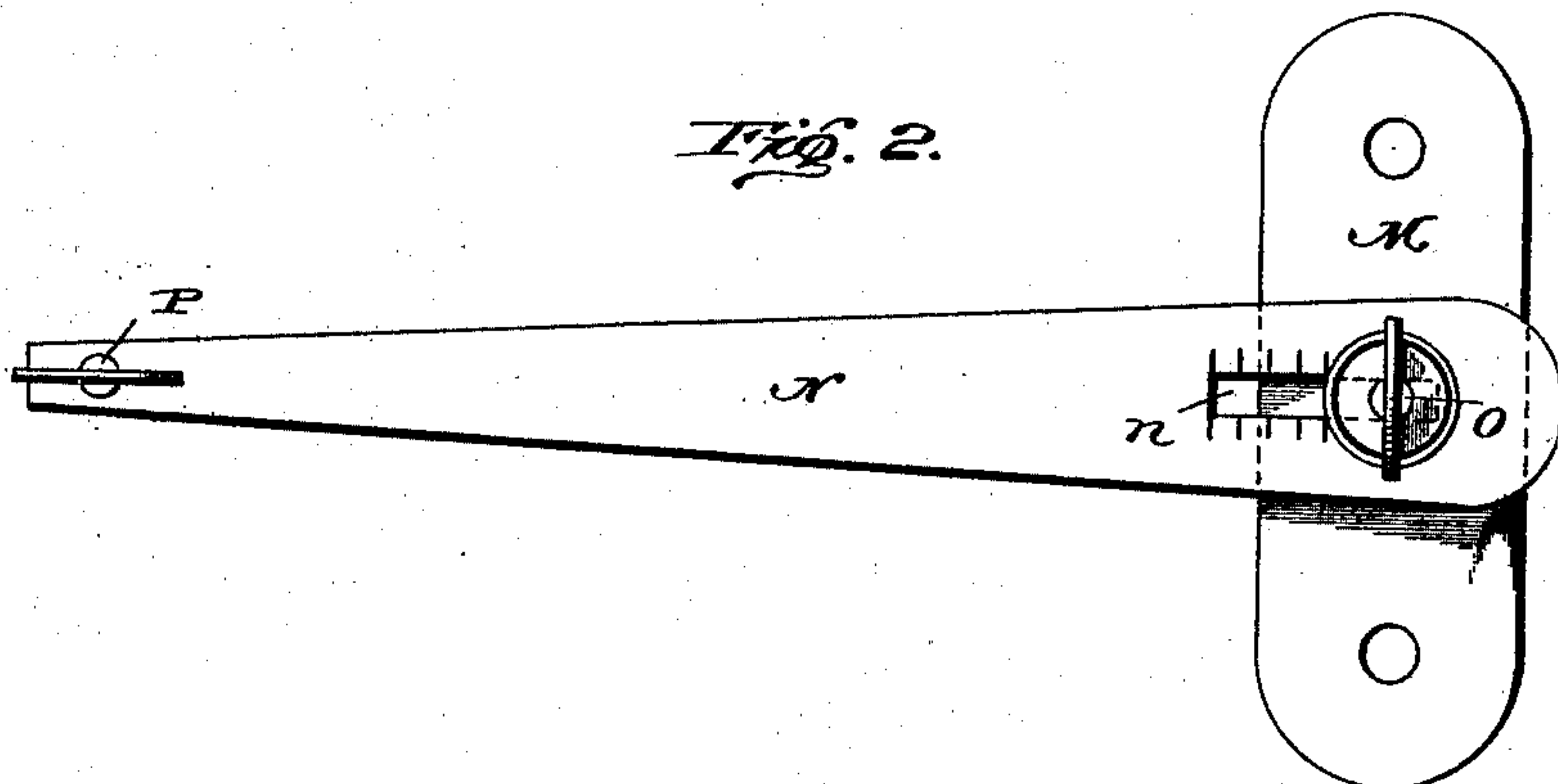
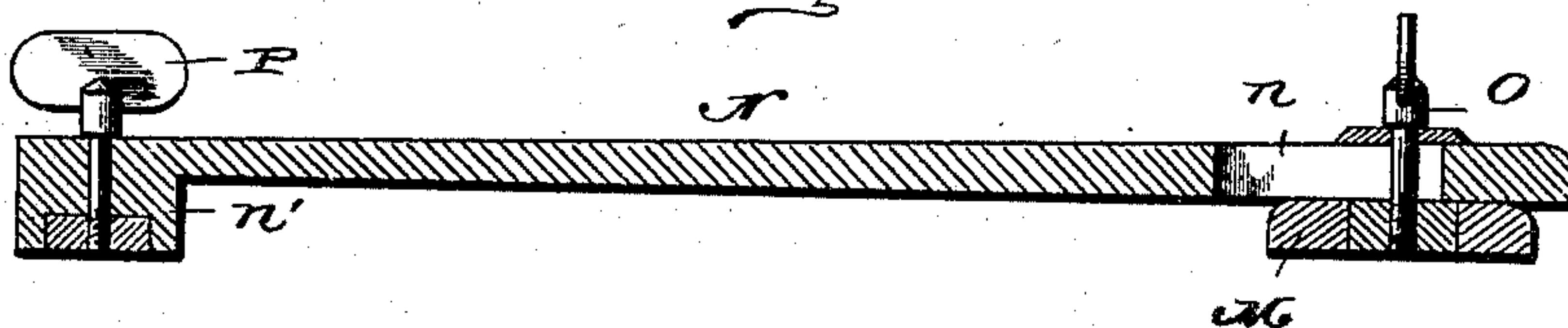


Fig. 2.



Ex. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

EDGAR EASTON, OF KANSAS CITY, MISSOURI.

GAGE FOR RIVETING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 500,869, dated July 4, 1893.

Application filed April 19, 1893. Serial No. 470,991. (No model.)

To all whom it may concern:

Be it known that I, EDGAR EASTON, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Gages for Riveting Machines; and I do hereby 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.

My invention relates to improvements in attachments for riveting machines especially of that class which are adapted for use in harness making, and the object of the invention is to provide a simple and easily operated gage by which the attendant or operator of the machine can more readily place the parts to be united by the rivet in the proper position.

With these ends in view, my invention consists of an arm adjustably supported on the bed plate of the machine at one side of the lower or stationary die thereof and adapted to be adjusted longitudinally to vary the length of the space between itself and the die according to the width of the work to be operated on.

My invention further consists in the peculiar construction and arrangement of parts as will be hereinafter more fully pointed out and claimed.

In the accompanying drawings—Figure 1 is a side elevation of a tubular riveting machine provided with my improvements. Fig. 2 is a detail plan view of the gage. Fig. 3 is a longitudinal sectional view of the same.

Like letters of reference denote corresponding parts in the several figures of the drawings, referring to which—

A designates the bed of a riveting machine of any desired style and pattern which bed is rigidly mounted on a vertical support or standard B. On the bed, A, near the forward end thereof is arranged the lower stationary die, C, and the upper die, D, is carried by a vertically movable plunger, E, which extends through a passage formed in an arm F attached to the bed of the machine. The upper end of the plunger E is connected with one end of a lever G that is fulcrumed at an intermediate point of its length on the arm, F, and is connected at its lower rear end with the upper

end of one arm of a toggle lever, H, the lower end of which is connected with an operating treadle K.

To the bed, A, between the lower stationary die, C, and the lower end of the arm, F, is attached, by means of screws, bolt or similar suitable fastening means, a plate M. To the plate M is attached an arm, N, which extends longitudinally of the bed, A, of the machine toward the lower die C thereon. The arm, N, is preferably connected to the plate M by means of a thumb screw, O, which extends through a slot *n*, formed in the arm N, and into said plate and at its forward end the arm N is supported by a depending lug, *n'*. Through the arm N, and lug, *n'*, extends an adjusting screw P, the lower end of which rests on the bed, A, of the machine and by means of which the forward end of the arm N can be raised or lowered with relation to the bed of the machine. The sides of the slot *n* are graduated so that the operator can tell at a glance the distance between the forward end of the arm N and the die C and can readily regulate the size of said space.

In using my improved attachment the material through which the rivet is to be passed is placed above the lower die C and moved inwardly over the bed of the machine until its edge or edges contact with the forward end or face of the lug *n'*. The rivet is then forced through the material in the usual manner.

My improved gage is especially adapted for use in connection with machines used in the manufacture of harness where it is important that the rivet shall be exactly in the center of the strap or other piece of leather.

In using a machine, as commonly constructed, for the purpose of riveting harness straps or halters it is necessary for the operator to place the lap under the movable die and it requires considerable time to so adjust the work as to bring the rivet exactly in the center. When my gage is employed, however, it is first adjusted according to the width of the material to be riveted and the operator has merely to place the work in position and move it inwardly over the bed until it contacts with the lug *n'* and there is no chance for the rivet to be in the wrong place. The forward end of the longitudinally adjustable gage arm can

be raised or lowered by means of the screw, P, according to the thickness of the material to be connected by the rivet.

I am aware that changes in the form and proportion of parts and details of construction of the devices herein shown and described as an embodiment of my invention can be made without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make such changes and alterations as fairly fall within the scope of the same.

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

1. A gage for riveting machines, substantially such as herein described, consisting of a plate adapted to be fastened to a machine-bed, a single flat arm provided with a longi-

tudinal slot at one end and a depending stop at its other end, and a clamping screw fitted in the slotted end of the arm and adapted to fasten the arm to the plate, as and for the purposes described.

2. A gage for riveting machines, substantially such as herein described, consisting of a plate, an arm provided with a depending abutment at one end and carrying a regulating screw adapted to raise or lower the free end of said arm and its abutment, and means for clamping said arm to the plate, as and for the purposes described.

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

EDGAR EASTON.

Witnesses:

SYLVESTER P. FROST,
ROBT. A. EASTERDAY.