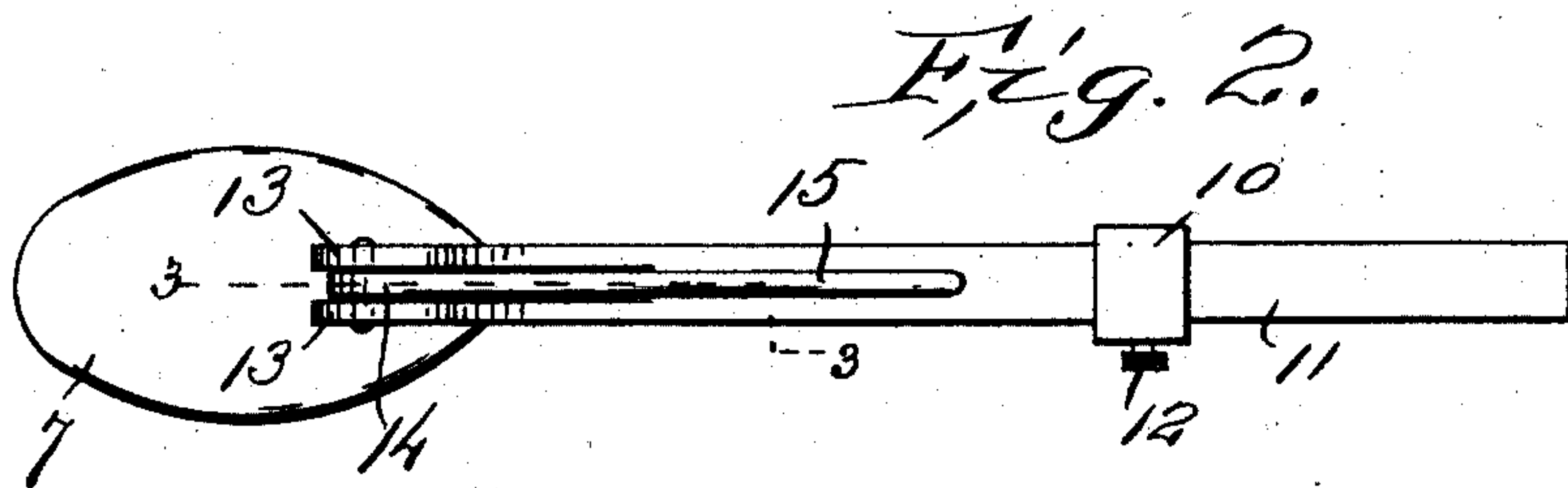
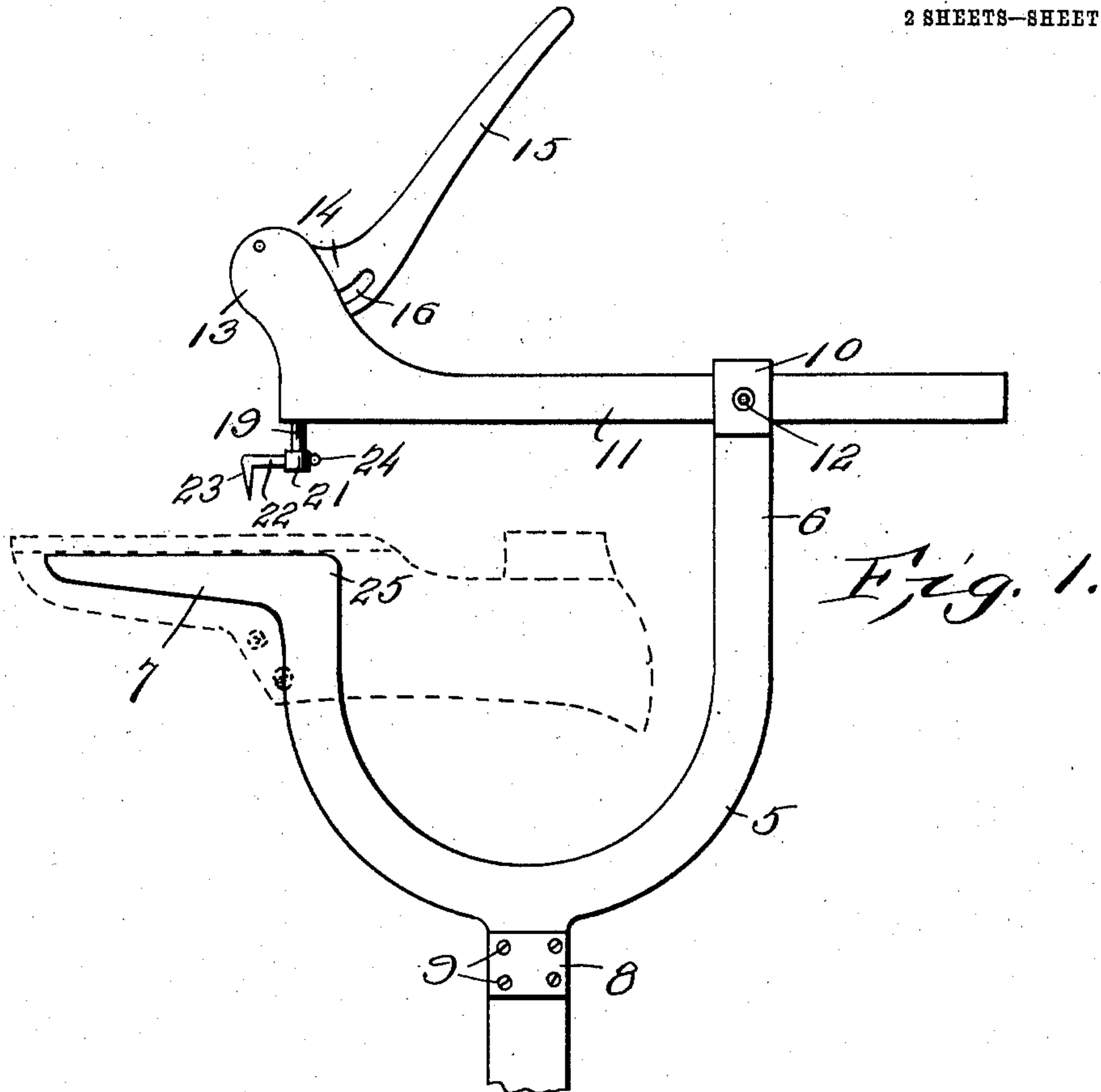


A. B. GRODAES.
SHOE SOLING DEVICE.
APPLICATION FILED SEPT. 10, 1907.

905,694.

Patented Dec. 1, 1908.

2 SHEETS—SHEET 1.



Witnesses
L. P. Armstrong
John P. Myers

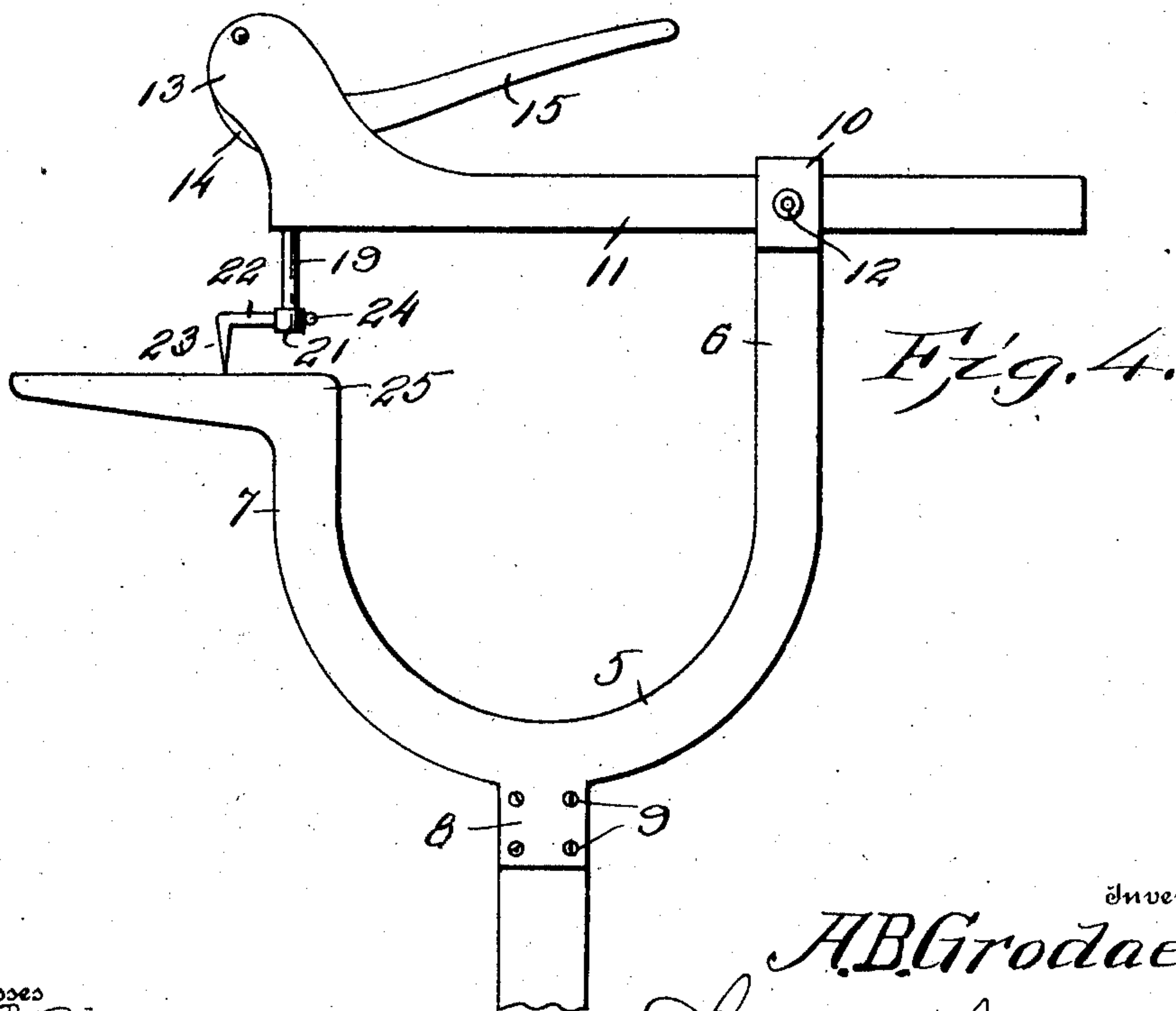
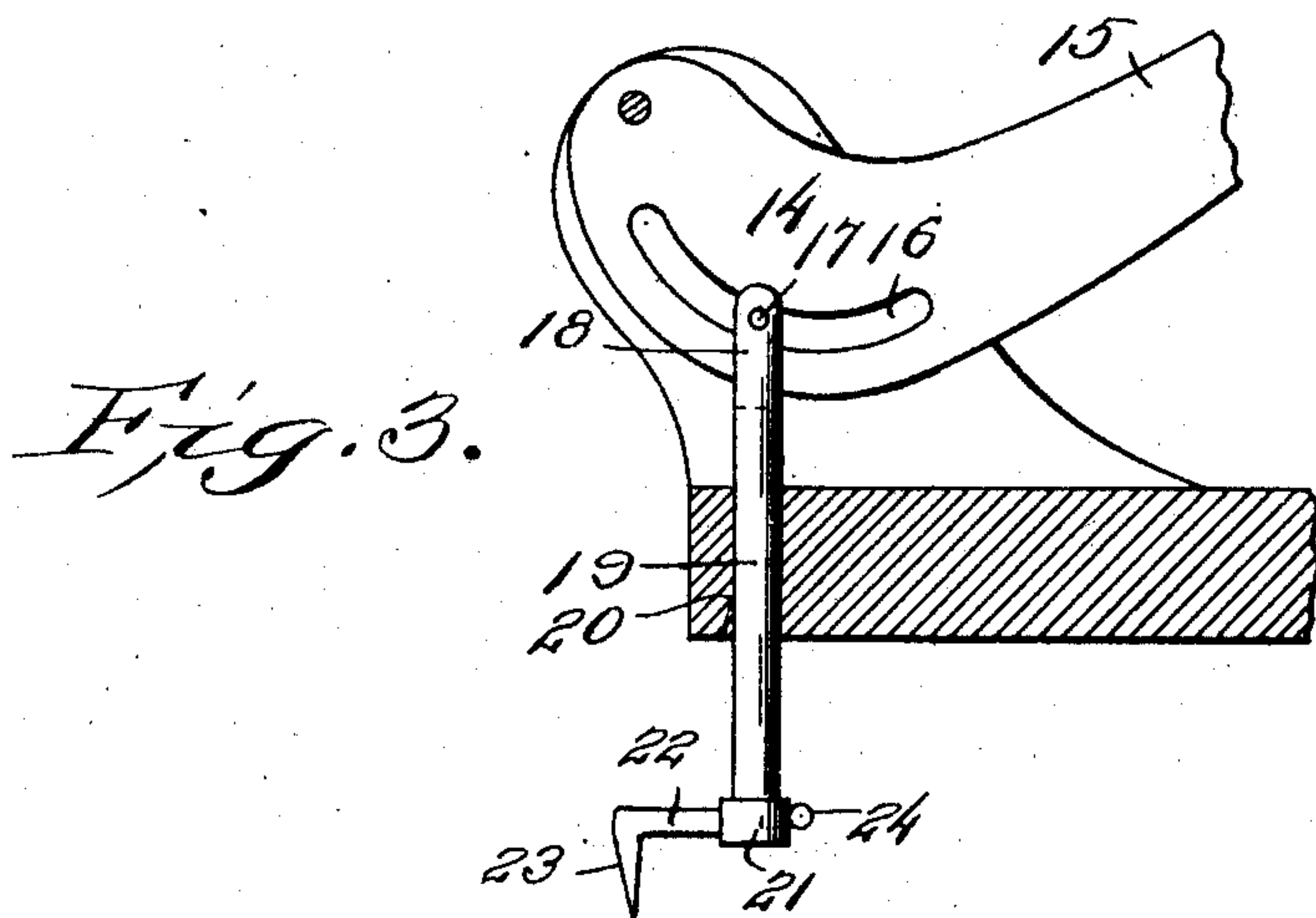
Inventor
A. B. Grodaes
By *Charles L. Grodaes*
Attorneys

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2 SHEETS—SHEET 2.



Witnesses
A. A. Cunningham
John B. Norris

Inventor
A. B. Grodaes
By *Charles H. Grodaes*
Attorneys

UNITED STATES PATENT OFFICE.

ANDREW B. GRODAES, OF ARTHUR, NORTH DAKOTA.

SHOE-SOLING DEVICE.

No. 905,694.

Specification of Letters Patent.

Patented Dec. 1, 1908.

Application filed September 10, 1907. Serial No. 392,227.

To all whom it may concern:

Be it known that I, ANDREW B. GRODAES, a citizen of the United States, residing at Arthur, in the county of Cass, State of North Dakota, have invented certain new and useful Improvements in Shoe-Soling Devices; 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.

This invention relates to new and useful improvements in machines for nailing boots and shoe soles and it has particular reference to a machine for the above purpose which includes a stationary stand serving as a last for holding the shoe and lever operated means coöperating with the stand for forcing an awl into the half sole.

In connection with a machine constructed generally as above described the invention aims as a primary object to provide a novel construction, combination and arrangement of parts, the details of which will appear in the course of the following description in which reference is had to the accompanying drawings forming a part of this specification, like characters of reference designating similar parts throughout the several views, wherein:—

Figure 1 is a side elevation, showing the manner of use of a machine constructed in accordance with the present invention, the shoe being shown in dotted lines, Fig. 2 is a top plan view of such machine, Fig. 3 is a section on the line 3—3 of Fig. 2 illustrating in detail the construction and mode of assemblage of the lever and its adjuncts, and, Fig. 4 is a view similar to Fig. 1 illustrating the mode of operation of the machine.

In the accompanying drawings the numeral 5 designates the stand which is of substantial U-shape in side elevation and which includes a shank 6 and a last portion 7. The stand 5 is formed at a central point with a projecting bracket 8 having screw holes 9 to permit of fastening means being engaged therethrough into a stationary support. The shank 6 has its upper end formed with a sleeve 10 which surrounds a slidable member 11, the sleeve 10 and member 11 being preferably rectangular in cross section. A set screw 12 is engaged through the sleeve 10 to hold the member 11 at various selected positions during the use of the device. The

member 11 is formed at its front end with upstanding spaced parallel ears 13 between which is pivoted the enlarged working portion 14 of a lever 15. The working portion 14 is constructed with a curved slot 16, constituting in effect, a cam, through which is engaged a pin 17 mounted transversely between the bifurcations 18 of a stem 19 which has vertical movement through a bore 20 formed in the end of the member 11. Surrounding the lower end of the stem 19 is a sleeve 21 carrying a projecting arm 22 provided with an awl 23. The arm 22 is held at selected angular dispositions on the stem 19 by means of a set screw 24 threaded through the sleeve 21 and bearing frictionally against the shoe stem. The last portion 7 is constructed with a heel 25 to hold the shoe against accidental displacement and in use the shoe is placed over this last portion in the well known manner. The lever 15 is shown in its elevated position in Fig. 1, but when it is desired to drive a nail said lever is moved downwardly to the position of Fig. 4, such action resulting in depressing the stem 19 so as to force the awl 23 into the shoe to accomplish the functions of punching a hole or driving a nail.

The invention is simple in its structural details, inexpensive to manufacture, and practical and efficient in use.

From the foregoing description it will be seen that simple and efficient means are provided for accomplishing the objects of the invention, but, while the elements herein shown and described are well adapted to serve the purposes set forth, it is obvious that various minor changes may be made in the proportions, shape and arrangement of the several parts without departing from the spirit and scope of the invention as defined in the appended claims.

What is claimed, is—

1. A machine of the class described comprising a stand including a shank and a last portion, an adjustable member connected to the shank, and movable over the last portion, a depressible stem carried at one end of said member and vertically movable with respect to the latter, means on the member to actuate said stem, and an awl carried by the free end of said stem.

2. A machine of the class described having a stand forming a last portion, an adjustable member carried by the stand and movable

over the last portion, a stem having an awl
slidable in the member and a lever pivotally
connected to the member to actuate the awl.

3. A machine of the class described, com-
5 prising a stand of substantially U-shape, one
end of the latter terminating in a sleeve and
the other end in a last portion, a member
slidably adjustable in the sleeve, ears on the
front end of said member, a stem vertically
10 slidable in said member intermediate the

ears, an awl carried at the lower end of said
stem, and means pivotally connected to the
ears to actuate the stem.

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

ANDREW B. GRODAES.

Witnesses:

WILLIAM H. BEARD,
W. F. KITTEL.