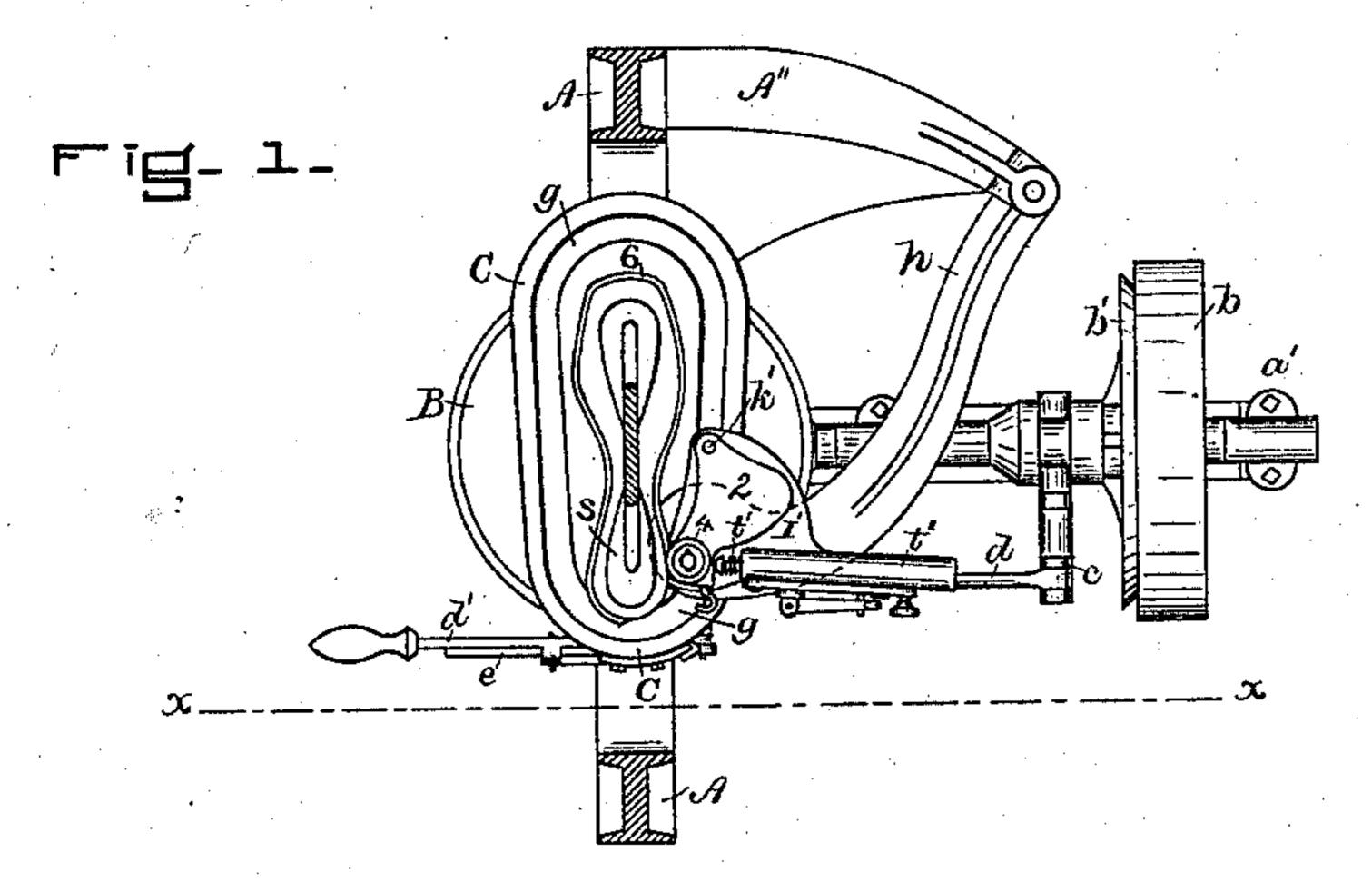
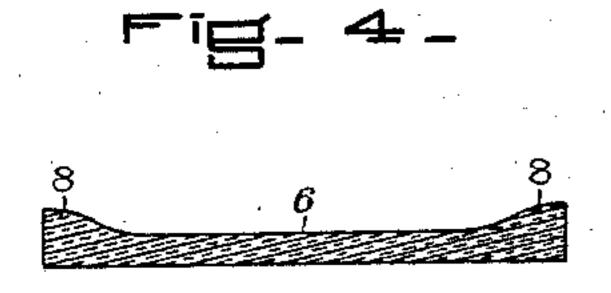
H. M. HAYNES.

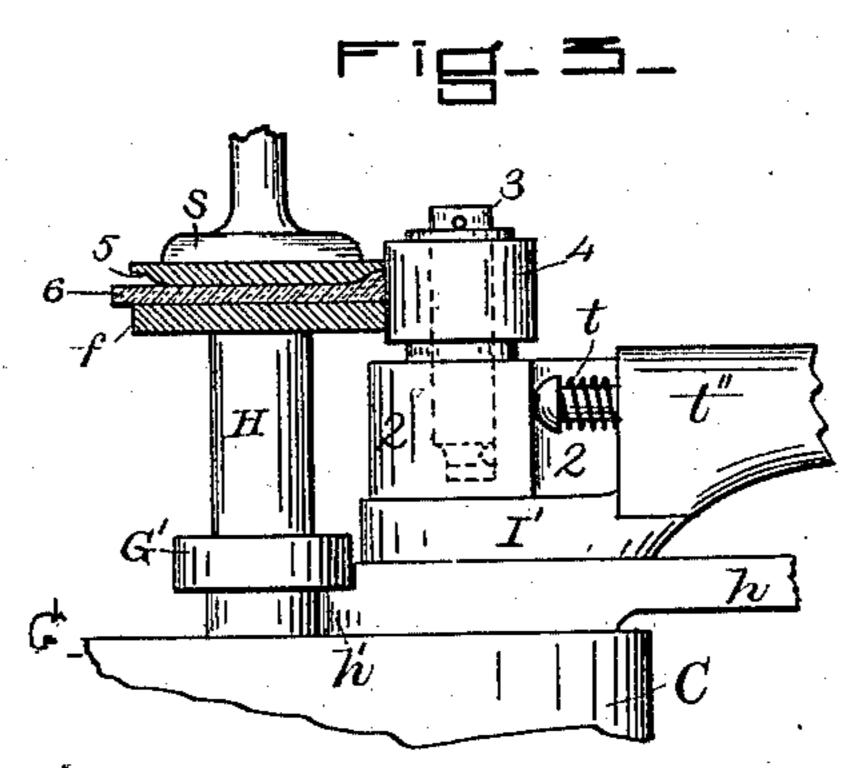
APPARATUS FOR FLANGING AND UPSETTING SOLES.

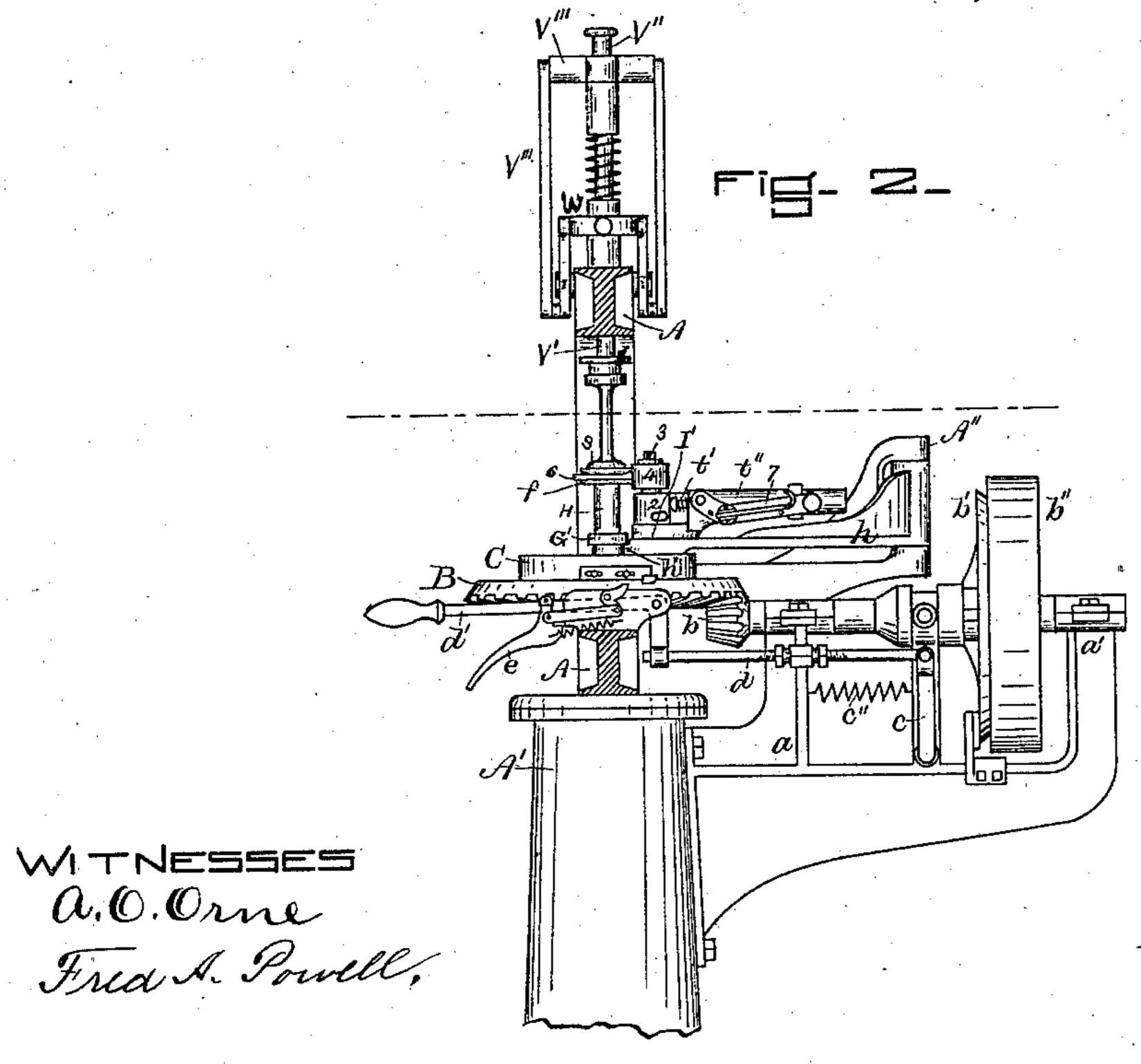
No. 286,926.

Patented Oct. 16, 1883.









INVENTOR
Henry M. Haynes.

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United States Patent Office.

HENRY M. HAYNES, OF SAXONVILLE, ASSIGNOR TO WILLIAM H. BENT, OF WAYLAND, MASSACHUSETTS.

APPARATUS FOR FLANGING AND UPSETTING SOLES.

SPECIFICATION forming part of Letters Patent No. 286,926, dated October 16, 1883. Application filed April 23, 1883. (No model.)

To all whom it may concern:

Be it known that I, HENRY M. HAYNES, of Saxonville, county of Middlesex, and State of Massachusetts, have invented an Improvement 5 in Apparatus for Flanging or Upsetting Soles, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object the construction of a machine upon which to flange or

thicken the edge of a sole.

This invention consists, essentially, in a pattern or support for the sole and a pressing-15 plate beveled or cut away, as hereinafter described, to permit the edge of the sole to be upset and thickened when held between the pattern and presser, combined with a roller co-operating therewith and rolling against the 20 edge of the sole with a force sufficient to force the edge of the sole into the beveled or enlarged space at the edge of the pattern-plate, and pressed to thicken the edge beyond the thickness of the remaining part of the same 25 back of and between the said edges, as will be hereinafter described; and shown in the accom-

panying drawings.

Figure 1 represents in partial plan view a sufficient portion of an apparatus, taken in con-30 nection with the mechanism represented in United States Patent No. 270,498, January 9, 1883, to which reference may be had, to illustrate my invention. Fig. 2 is a partial section, taken from the side of the machine, on 35 the line xx, Fig. 1. Fig. 3 is a sectional detail, showing the sole rest or pattern and the pressing-plate above it, the roller for upseting the sole-edge, and part of the apparatus for carrying the said roller about the sole; and 40 Fig. 4, a cross-section of a sole, showing its edges upset and thickened.

The frame A, post A', arm A'', arm h pivoted thereon, ledge h' at the end of said arm, cam C, cam-groove g, gear-wheel B, bevel-45 pinion b, link d, levers c and d', latch e, solepattern f, pattern-rest H, rod V', nut V'', cross bar or frame V", knuckle-joint W, shelf G,

lever I', barrel t'', spring-bolt t, lever 7, and

pivot k' are all substantially as in the said patent, and are moved in a like manner. The 50 carrier-block 2, pivoted at k', is very much like the block marked K in the said patent, but it does not extend up so high; but it does have the same movement as does the block K in the patent. The block 2 has a hole to re- 55 ceive the stud 3, on which is placed the roller 4, and this roller is caused to travel about the pattern f, as are the block K and the several knives described in the said patent. The presser s, carried by the rod V', is beveled 60 about its edge at its under side, leaving a space at 5, into which the projecting edge of the leather sole 6 (see left of Fig. 3) is pressed, as at the right of Fig. 3, by the action of the roller 4, thus causing the edge of the sole to 65 be upset and thickened, as at 8. (See Fig. 4.) As in the said patent, the lever I' will have a disk with attached rollers to enter the cam-groove g. The presser-plate s will be raised and lowered as the clamp U in the 70 said patent. The presser-plate and pattern are substantial counterparts as to width and iength.

To convert the said patented machine into a machine for upsetting the projecting edge 75 of a sole, it is practically necessary only to provide the same with the presser-plate and substitute the roller 4 and its stud 3 for the frame L and pin l shown in Fig. 7 of the said patent.

Instead of the particular devices shown for holding the roller while the pattern-plate is

rotated, or instead of the particular means shown to rotate the pattern-plate, I may employ any other well-known or equivalent mech- 85

anism.

If desired, the pattern-plate f may be beveled instead of the presser-plate, in which case the sole would be held with its finished sideuppermost. If the pattern-plate were sta- 90 tionary and the roll were moved about it with a carriage—the converse of the construction shown—I consider that it would come within the scope of this invention.

T claim—

The rotating pattern and the presser-plate

beveled or cut away, as described, to permit the sole to be upset or forced into the space so made, combined with the roller, to act against the edge of and upset the sole into the said space and thicken the edge of the sole, and actuating means, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HENRY M. HAYNES

Witnesses:

C. G. THAYER, WILLIAM NUTT.