

G. F. Dressing, Dressing Leather.

N^o 44,616.

Patented Oct. 11, 1864.

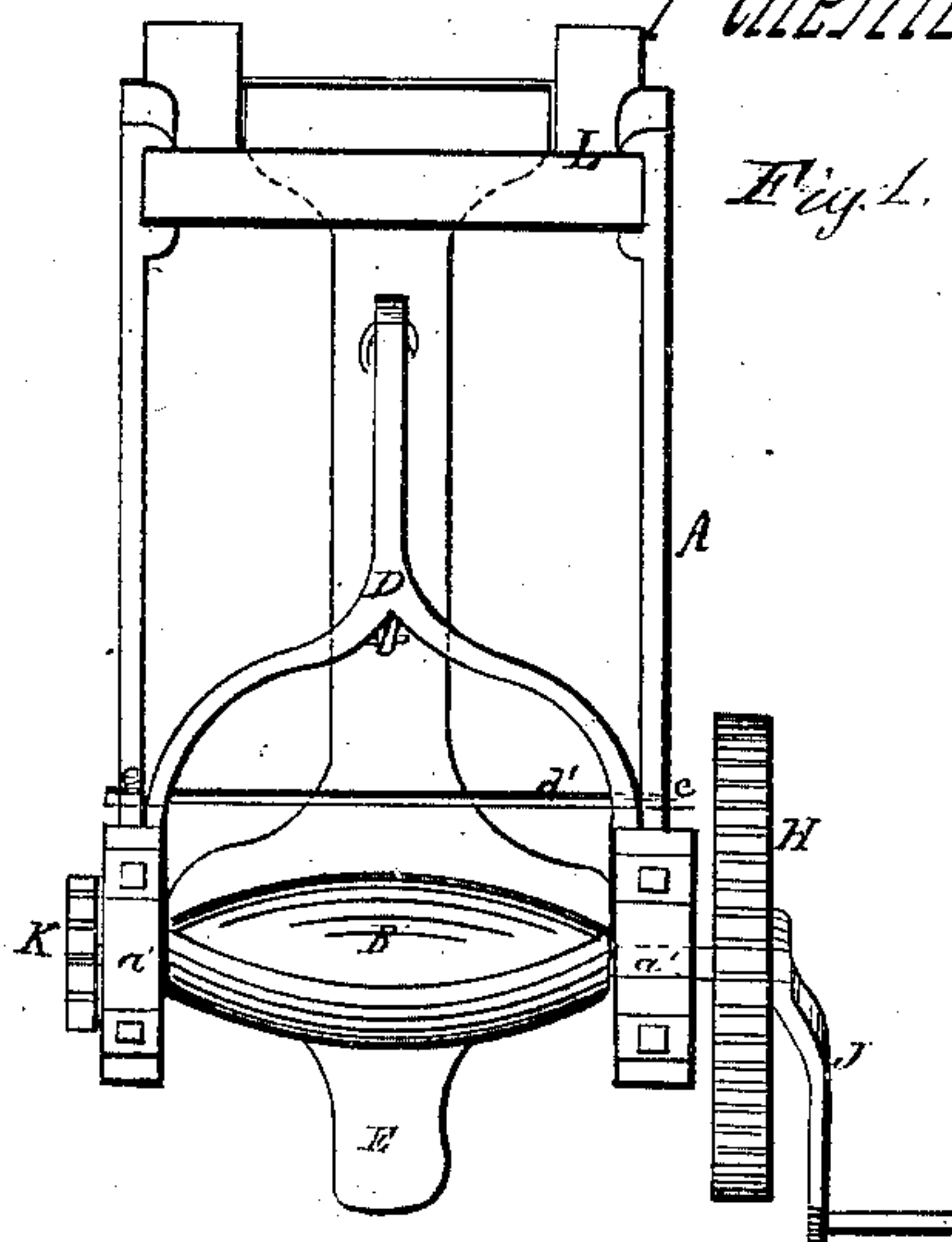


Fig. 1.

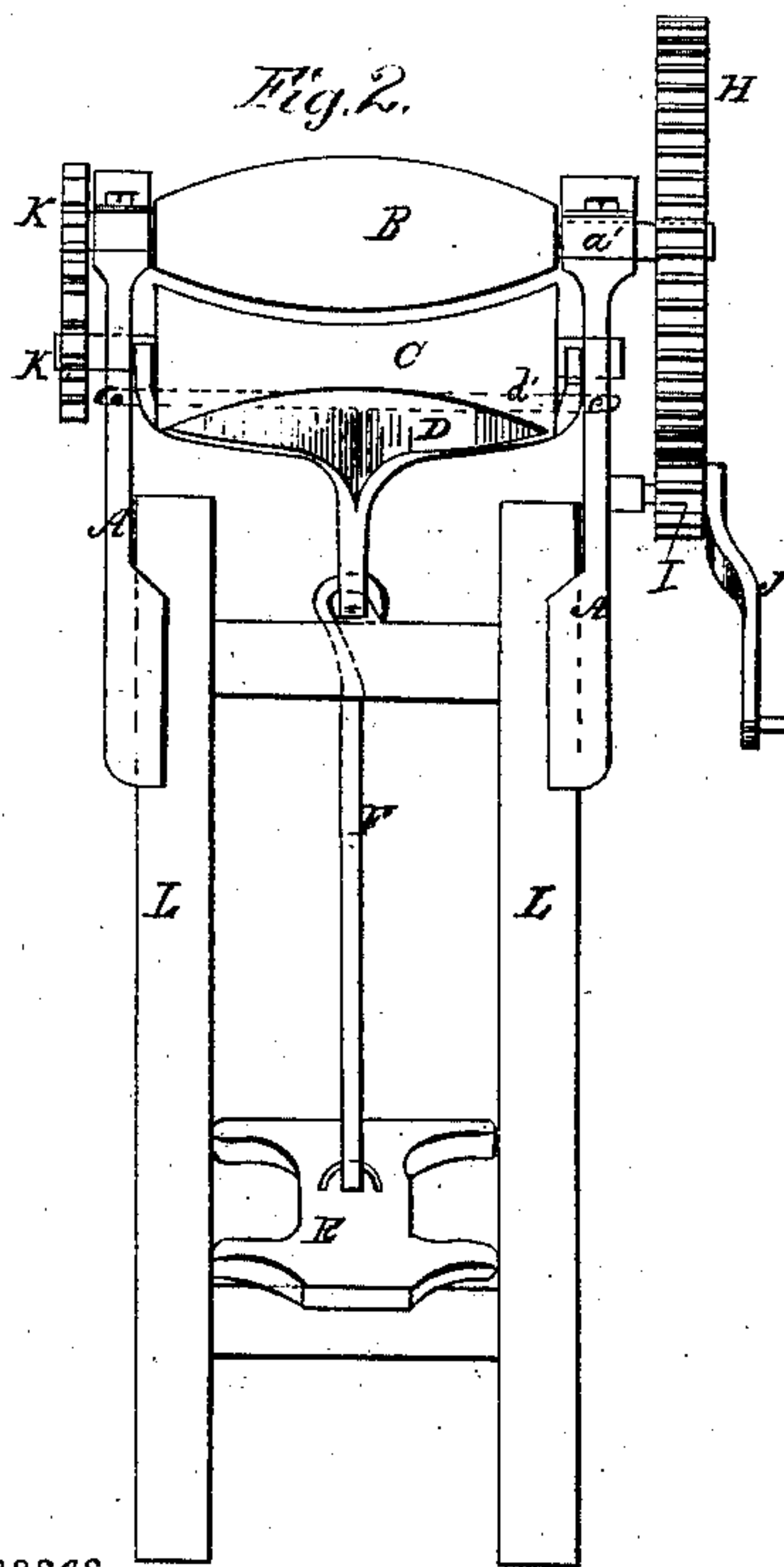


Fig. 2.

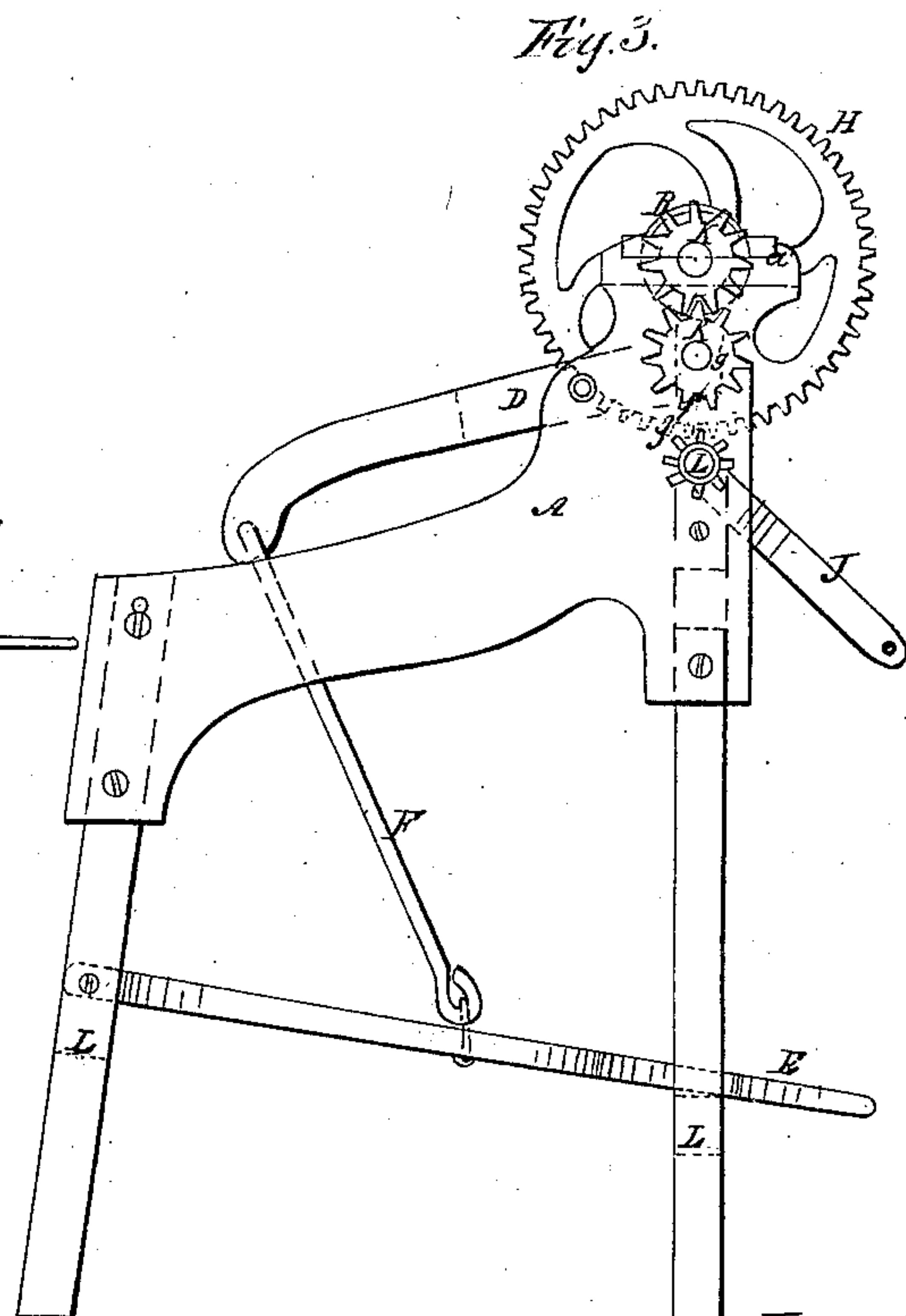


Fig. 3.

Witnesses.

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UNITED STATES PATENT OFFICE.

GERHARD F. DRESING, OF BUFFALO, NEW YORK.

IMPROVED LEATHER-PRESSING MACHINE.

Specification forming part of Letters Patent No. 44,616, dated October 11, 1864.

To all whom it may concern:

Be it known that I, GERHARD F. DRESING, of the city of Buffalo, county of Erie, and State of New York, have invented a new and Improved Leather-Pressing Machine; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure I is a top plan view. Fig. II is a front end elevation. Fig. III is a side elevation.

The nature of this invention relates to an improved machine for pressing sole and upper leather, designed for hand-use in boot and shoe makers' shop, the improvement consisting in the arrangement of two compression-rollers within an iron frame so that the upper roller is supported in appropriate journal-boxes at the top of the iron frame, and the lower one is supported in a forked horizontal fulcrum-lever, and is guided by vertical slots in the iron frame, and thereby the lower roller may be raised and lowered at pleasure, and any required amount of pressure brought upon the leather as it passes between the rollers.

Letters of like name and kind refer to like parts in each of the figures.

A represents an iron frame for supporting the compression-rollers, and in which they are worked. Broad journal bearings and cap are formed at the top of this frame, as shown at *a'*, in which the shaft or journal pins of the upper roller work. This construction gives a firm and steady support to the upper roller.

B is the upper compression-roller, having journal-pins inserted at the ends, or a journal-shaft passing through the center, as may be preferred, supported upon and revolving in the journal-boxes, as before described. This roller is made convex.

C is the lower compression-roller, which is made concave to correspond with the convexity of the upper roller. This roller is hung in appropriate journal-bearings in the forked lever D. This lever has a fulcrum-shaft, as shown at *d'*, upon which it is hung. The shaft *d'* is supported in the iron frame, as shown at *e e*. The projecting end of this lever is connected with the pedal E by means of the rod F, so that when the pedal is forced downwardly

by the foot of the operator a compound-lever purchase is brought into action, which will move the lower roller with multiplied force, and hence any required amount of pressure may be brought upon the leather which is passed between the rollers. Slots are made in the iron frame, as shown at *g*, to allow of the required vertical movement of the lower roller.

H is a large cog-wheel, which is hung upon the shaft of the upper roller, and I is a small pinion-wheel, which meshes with this large wheel, and hand-power is applied by means of the crank J to revolve the rollers.

K K represent star-gearing hung upon the roller-shafts, and which mesh in a manner to communicate motion from one roller to the other. The iron frame A is supported upon the wood frame L. The pedal is guided between the posts of the wooden frame, as shown in the drawings.

Operation: By means of the connection of the pedal with the forked lever, when the pedal is raised the lower roller is dropped down a little, and makes room to pass in the leather to be pressed between the rollers. Then the operator bears down upon the pedal with his foot and gives the required amount of compression to the rollers, and at the same time turns the rollers with his right hand by means of the crank, and guides the leather between the rollers with his left hand. The leather in this way may be passed back and forth between the rollers until it is sufficiently pressed for use. This operation is quickly and economically done, and avoids the slow and toilsome hammering of the leather upon a lap-stone.

What I claim as my invention, and desire to secure by Letters Patent, is—

The iron frame A, having journal-boxes formed in the top thereof for the support of the upper roller, and slots *g*, for guiding the lower roller, and forked fulcrum-lever D, in combination with the convex and concave rollers B C, pedal E, and connecting-rod F, for the purposes and substantially as set forth.

G. F. DRESING.

Witnesses:

E. B. FORBUSH,
GEO. W. WALLACE.