

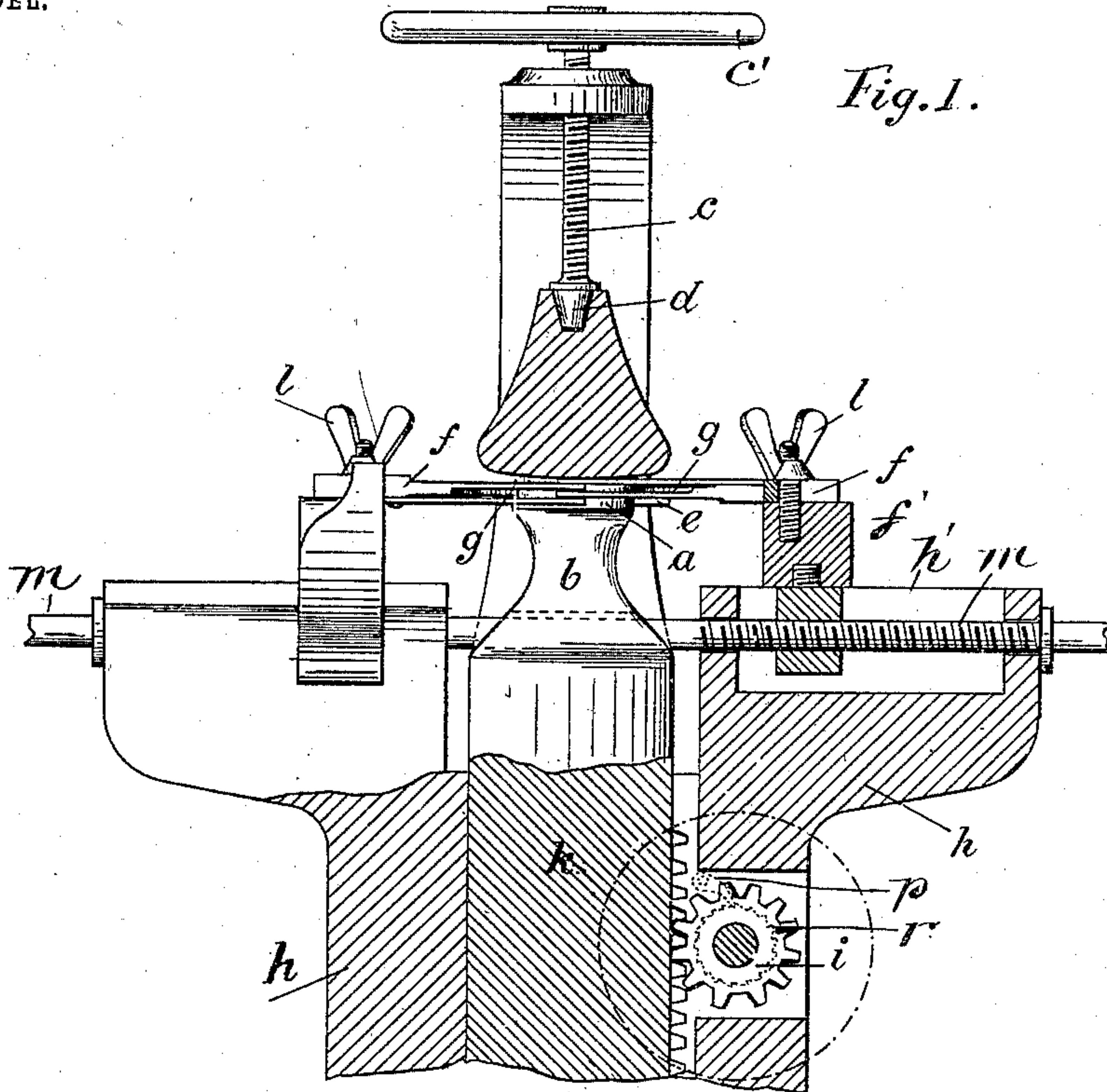
No. 725,233.

PATENTED APR. 14, 1903.

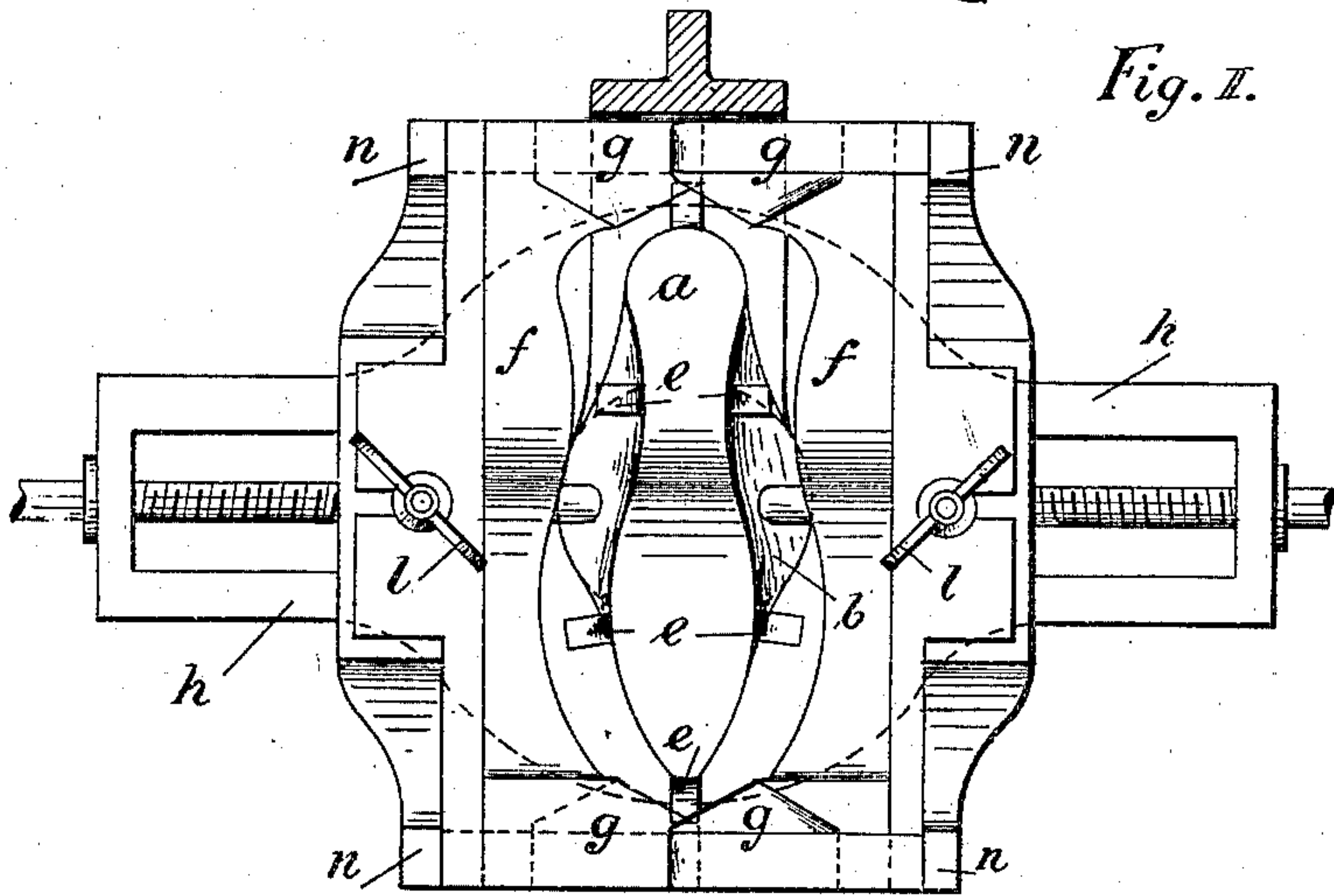
C. EISENBERG.  
LASTING MACHINE.

APPLICATION FILED AUG. 11, 1899.

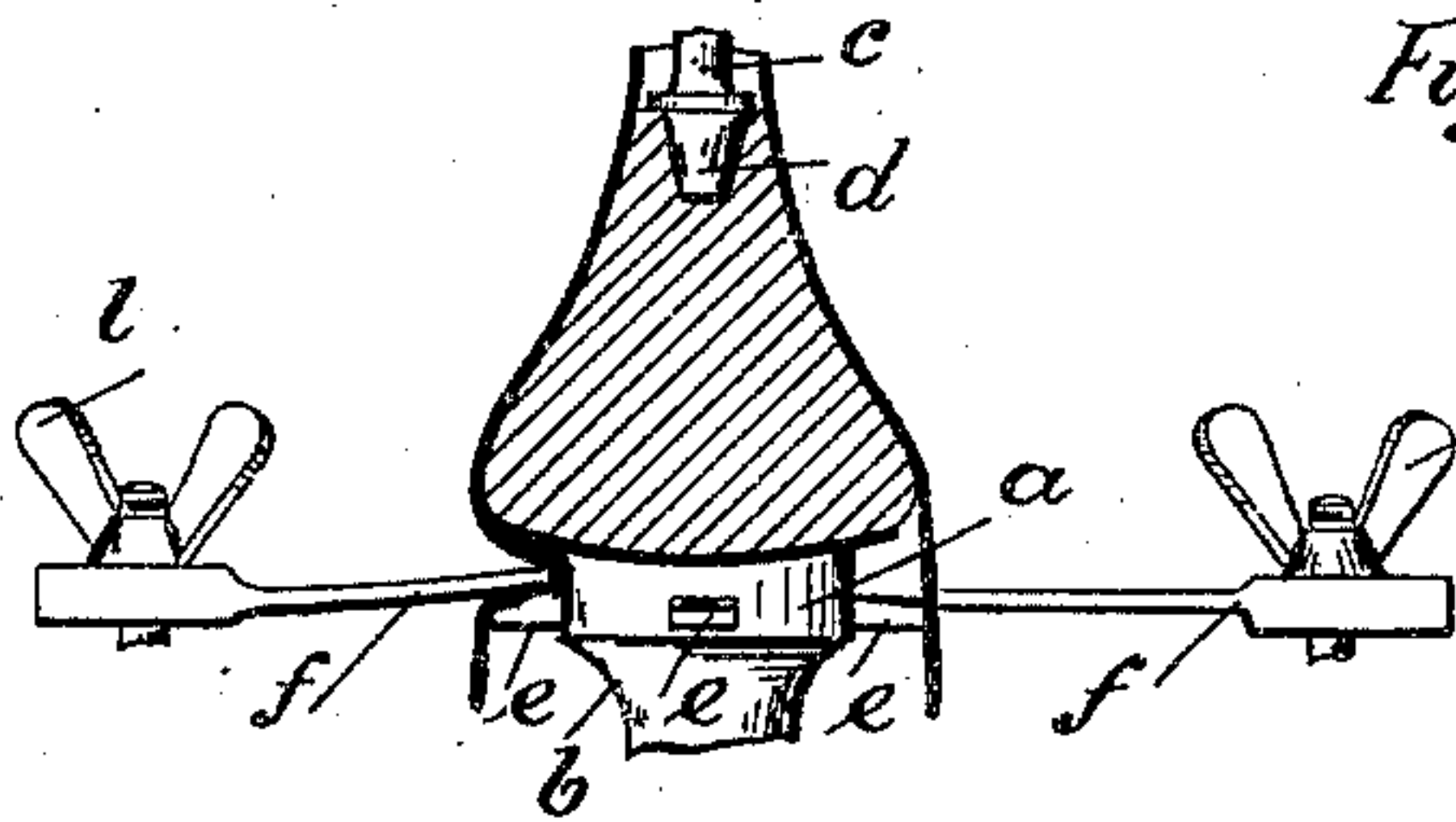
NO MODEL.



*Fig. 1.*



*Fig. II.*



*Fig. III.*

**Witnesses:**

B. S. Noble  
J. Buchler.

**Inventor,**

Charles Rosenberg  
by B. Singer  
Att'y.



# UNITED STATES PATENT OFFICE.

CHASKEL EISENBERG, OF BERLIN, GERMANY.

## LASTING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 725,233, dated April 14, 1903.

Application filed August 11, 1899. Serial No. 726,849. (No model.)

*To all whom it may concern:*

Be it known that I, CHASKEL EISENBERG, a subject of the Emperor of Germany, and a resident of Berlin, Germany, have invented certain new and useful Improvements in Lasting-Machines, of which the following is a specification.

In order to render the present specification more easily understood, reference is had to the accompanying drawings, in which similar letters of reference denote similar parts throughout the several views.

Figure 1 is a cross-section showing the general arrangement of the machine. Fig. 2 is a top plan view of the machine, and Fig. 3 is a sectional detail showing the action of the means for pressing the upper against the sole.

According to the present invention resilient wiper-plates *f* are employed to press the leather of the upper beneath the inner sole. These plates are cut approximately to the shape of the sole and are provided with tapered overlapping ends *g*, one end being slightly depressed and the other slightly raised in parallel planes with each other and with their bodies so that they slide one over the other when forced forward to bring the upper-leather properly around the last. The plates *f* are removably attached to blocks *f'*, which are moved toward and from the sides of the last in guideways *h'* by means of thumb-screws *l*, the said blocks being operated in the well-known manner by means of a screw-spindle *m* with right and left hand threads and the plates being capable of a certain amount of play in a vertical plane by reason of their elasticity. In order to properly stretch the leather of the upper over the last, the plates are caused to cooperate with a series of projecting lugs *e*, secured to and projecting laterally from the sole-form *a*, constituting the upper part of the last-supporting block *b*, and which lugs have upwardly-inclined cam-surfaces trending toward the last and beneath the margin of its tread, so that the elastic or flexible plates *f* will bend and force the leather under the last, as illustrated at the left-hand side of Fig. 3.

In order to allow the parts to be compressed after the upper has been folded in under the last, the last-support is vertically movable,

as will be seen in Fig. 1, the movement being effected by means of a rack *k'* on the support-stem *k* and a pinion *i*, and the support sustained in its adjusted position by means of ratchet-wheel *l'* and pawl *p*; but any suitable means may be employed. This compression is desirable, because at the outset the pressure is just sufficient to enable the lasting-plates to lay the upper snugly over the insole. Any greater pressure might result in such resistance as to cause the lasting-plates to double or to cut the leather of the upper; but when the upper is fairly laid the increased pressure is called for in order to obtain the close contact necessary for properly cementing it.

The last itself is clamped down against the form *a* by means of a spindle *c* and hand-wheel *c'*, the lower end of said spindle fitting into a socket *d* of the last, Fig. 1. The arrangement of the overlapping ends *g* of the plates *f* has the effect of forcing the leather underneath the last at the toe and heel ends of the same without forming creases.

The vertical adjustability of the last-supporting block *b* permits the use of the apparatus for leather of various thicknesses, while the attachment of the plates *f* by means of the thumb-screws *l* and slots in the plates enables them to be easily and conveniently interchanged for work of various kinds.

Having now particularly described and ascertained the nature of my invention and in what manner the same is to be performed, I declare that what I claim is—

1. A lasting-machine comprising resilient wiper-plates having projecting and overlapping parts at the ends, with means for moving said plates in toward the last, a last-supporting block, and a series of projecting lugs upon the last-supporting block, having inclined surfaces against which the wiper-plates act when so moved, so as to press the upper-leather against the inner sole in the manner and for the purpose substantially as described.

2. The combination in a lasting-machine, of a frame, an adjustable last-supporting block mounted in said frame, a series of lugs projecting therefrom and inclined along their upper surfaces inwardly and upwardly toward

the last, resilient wiper-plates coacting with said inclined surfaces, and means for moving said plates toward and from the sole of the last.

- 5 3. The combination in a lasting-machine, of resilient wiper-plates, means for moving them toward and from the last, a series of lugs located beneath the margin of the last and having inclined surfaces with which said

plates coact as they move inward, and means for independently adjusting said plates.

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

CHASKEL EISENBERG.

Witnesses:

HENRY HASPER,  
WOLDEMAR HAUPT.