

R. E. ADAM.  
HAT PRESSING MACHINE.  
APPLICATION FILED JULY 8, 1908.

907,113.

Patented Dec. 22, 1908.

Fig. 1.

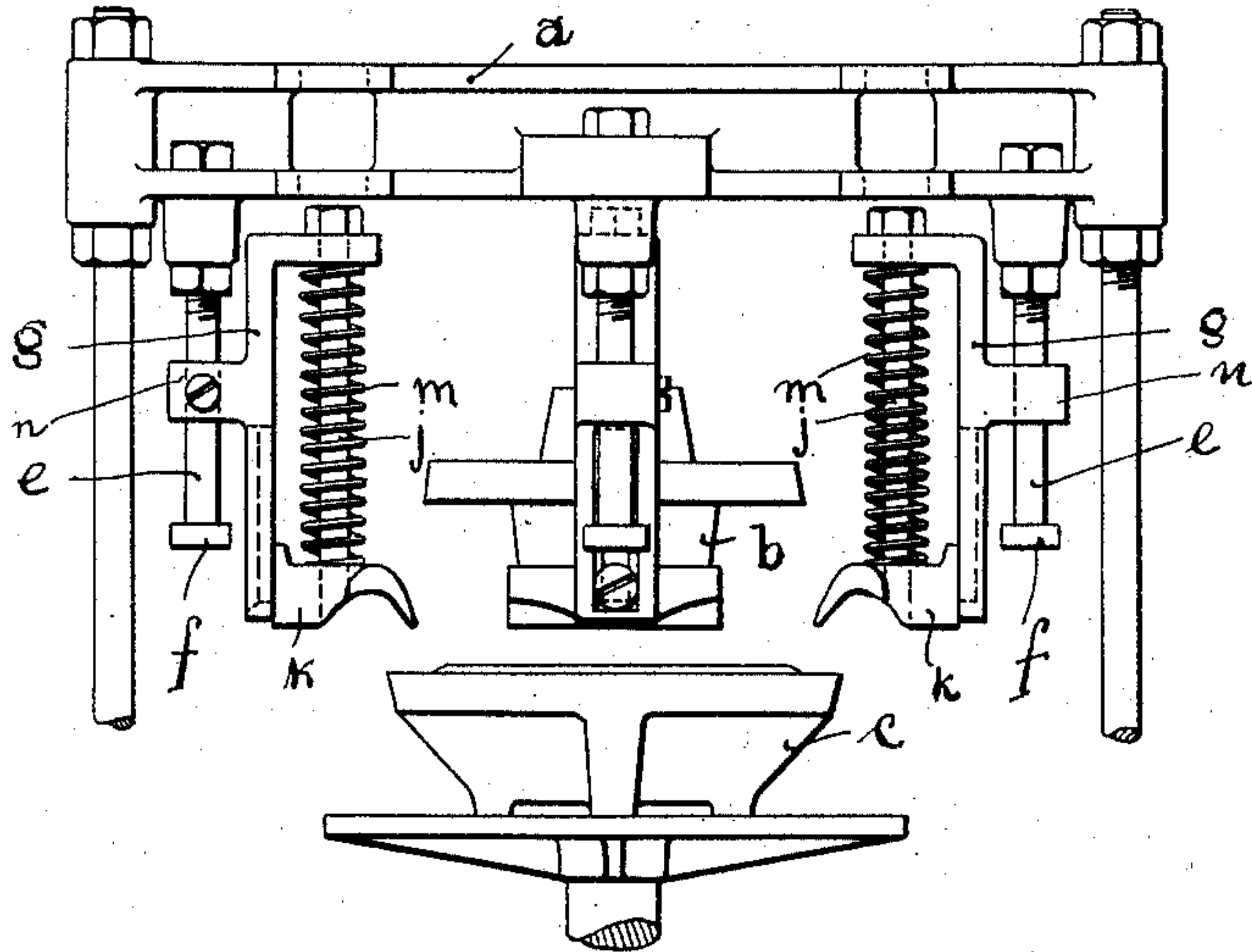


Fig. 2.

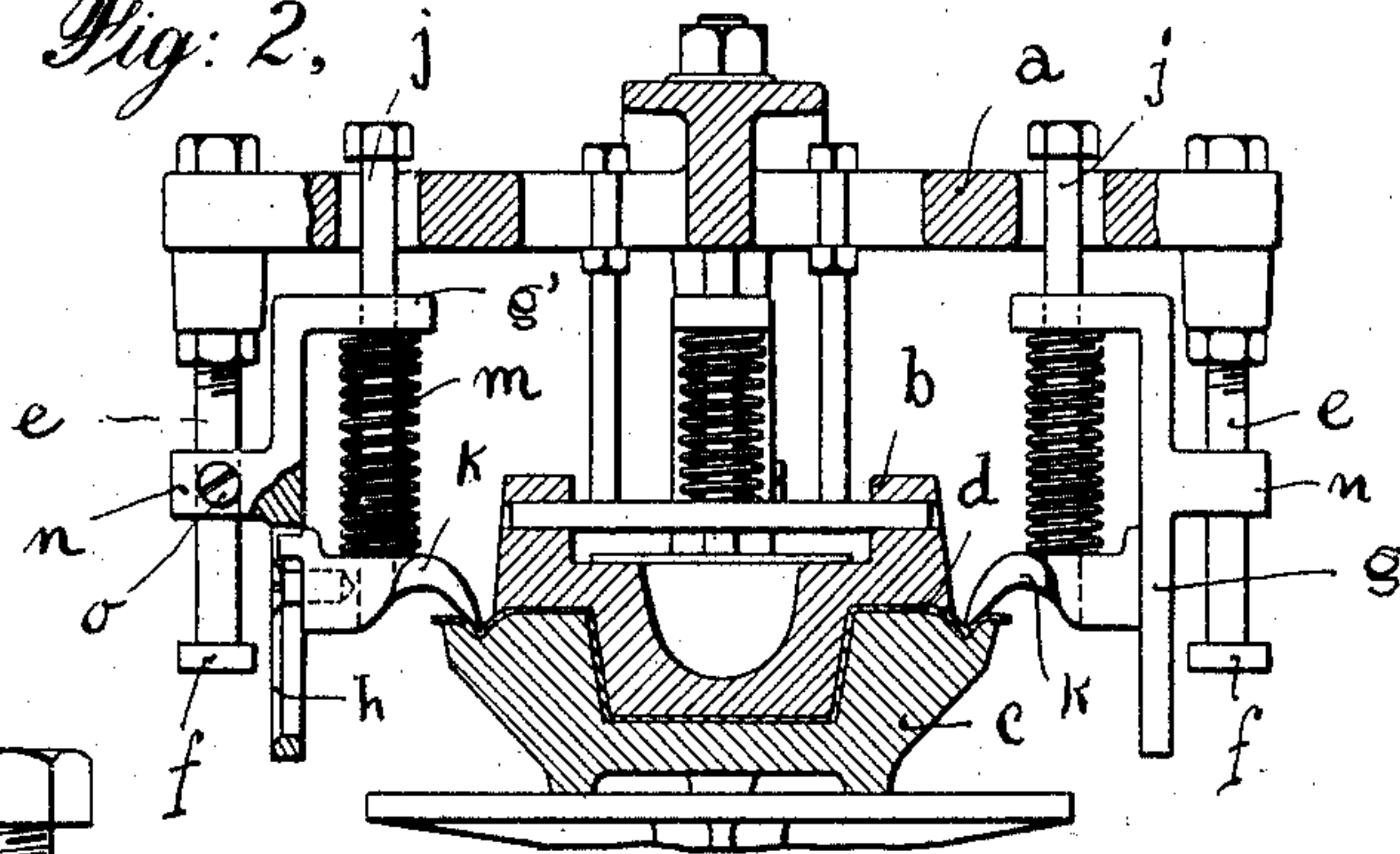


Fig. 3.

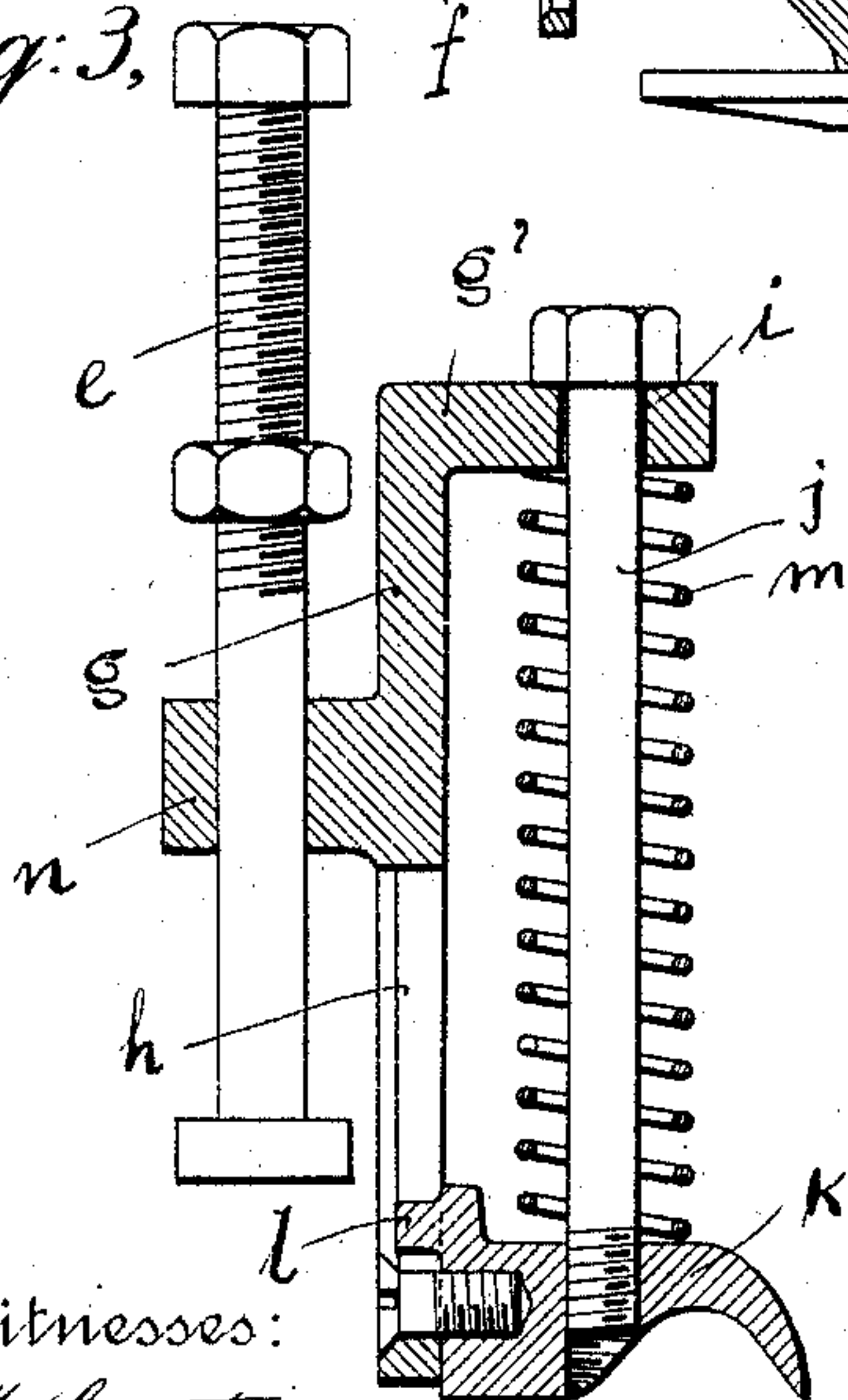
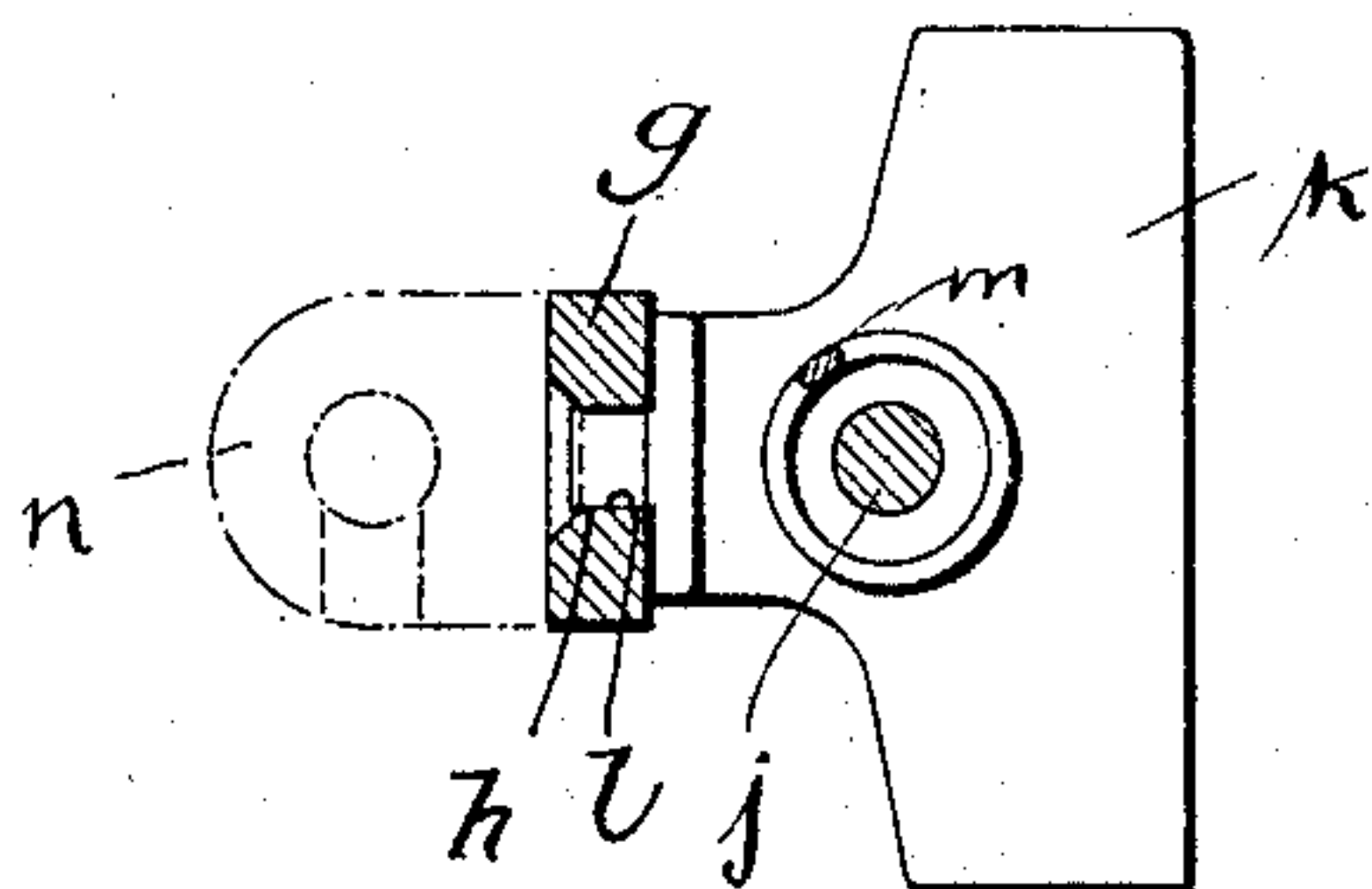


Fig. 4.



Witnesses:  
M. Gaetner  
J. Luttinger

Inventor  
Roman Edward Adam  
By his Attorney  
W. H. Ordman



# UNITED STATES PATENT OFFICE.

ROMAN EDWARD ADAM, OF CORONA, NEW YORK.

## HAT-PRESSING MACHINE.

No. 907,113.

Specification of Letters Patent.

Patented Dec. 22, 1908.

Application filed July 8, 1908. Serial No. 442,592.

*To all whom it may concern:*

Be it known that I, ROMAN EDWARD ADAM, a citizen of the United States, residing at Corona, in the county of Queens and State of New York, have invented certain new and useful Improvements in Hat-Pressing Machines, of which the following is a specification.

The present invention relates to apparatus for pressing hats and particularly to an attachment thereto for holding the stock fast upon the lower die during the pressing period.

The object of my invention is to simplify the apparatus in doing away with the hitherto used ring shaped body used for this purpose, and to provide a construction which will allow the pressing of hats of different shape and size and of the apparatus being used to form the so-called weld edge.

To accomplish my objects the movable frame of the apparatus which carries the upper die has attached to it two or more spring actuated clamps which, upon the descent of the movable frame and the upper die, are adapted to grasp the stock stretched over the lower die, and to hold the same fast during the pressing period.

Another object of my invention is to provide the clamps with means, whereby the clamps can be readily released at the completion of the pressing stroke to permit the rim of the hat of being bent around the upper die in order to form the so-called weld edge.

To make my invention more clear the same is illustrated in the accompanying drawing in which similar reference letters denote corresponding parts and in which

Figure 1 is an elevation and Fig. 2 a vertical section of the upper part of the apparatus, in Fig. 1 the clamps being shown out of operation and in Fig. 2 in operation. Fig. 3 is a vertical section in enlarged scale of one of the clamps and Fig. 4 a horizontal section thereof.

In the drawing *a* is the vertically reciprocating frame which carries the upper die *b*. *c* is the lower die, upon which the stock *d* is to be pressed. These parts being old I shall not describe the details thereof.

Suitably fixed to the reciprocating frame *a* are two or four vertical rods *e* which at their ends are provided with heads *f*. Ad-

justably mounted on said rods are angular bars *g* which are provided with vertical guide grooves or recesses *h*. In the upper part *g'* of the bars *g* a bore *i* is provided, through which loosely extends a rod *j* to the lower end of which a clamp shaped shoe *k* is secured. This shoe is formed at its rear with a projection *l* fitting in the guide groove *h*. Mounted around the rod *j* and resting with its ends between the part *g'* of the bar *g* and the clamp shaped shoe *k* is a spiral spring *m* tending to press the shoe downwards. For the attachment of the bar *g* to the rod *e* the former is provided at its rear with an eye *n* passed over the said rod and carrying a set screw *o* whereby the clamps can be easily released from the stock upon the completion of a downward stroke.

The mode of operation is as follows: At the beginning of the downward movement of the frame *a* the clamp shaped shoes are brought in contact with the rim of the hat stretched over the lower die and as the downward movement of the frame continues the clamps *k* engage with grooves or recesses in the lower die holding the stock fast during the pressing operation. By the continuance of the downward movement of the frame the clamp shoes *k* are caused to slide upwards in the guide grooves *h*, whereby the springs *m* are compressed. When it is desired to form the hat with a weld edge all that is necessary is to slacken the set screws *o*, whereby the bars *g* will be released upon their rods *e*, permitting the free edge of the rim of being turned upwards, while the dies remain in engagement with one another.

What I claim and desire to secure by Letters Patent is—

1. In hat pressing machines, the combination with the reciprocating frame and the upper and lower dies, of rods carried by said frame, angular bars adjustably mounted on said rods and having vertical guide grooves, and spring actuated clamping shoes carried by said bars and slidably engaged in the guide grooves of the latter.

2. In hat-pressing machines, the combination with the reciprocating frame and the upper and lower dies, of rods carried by said frame, angular bars having vertical guide grooves and lateral projections or eyes loosely bearing on said rods, spring-actuated clamping shoes carried by said bars and suitably engaging in the guide grooves of the latter,



and means for releasing the clamping shoes from the stock upon their completion of a downward stroke.

3. In hat pressing machines, the combination with the reciprocating frame and the upper and lower dies, of rods carried by said frame, angular bars having vertical guide grooves and lateral projections or eyes loosely bearing on said rods, spring actuated clamping shoes carried by said bars and slidably engaged in the guide grooves of the latter, and set screws working in said ears for temporarily locking the bars upon said rods and to permit the release of the clamps from the stock upon the completion of a downward stroke.

4. A clamping device for hat pressing machines, comprising an angular bar having a vertical guide groove, a rod loosely borne in said bar, a clamp shaped shoe secured to the

lower end of said rod and slidably engaged in said guide groove and a spring between the bar and the shoe.

5. A clamping device for hat-pressing machines, comprising an angular bar, having a vertical guide groove, a rod loosely borne in said bar, a clamp-shaped shoe secured to the lower end of said rod and slidably engaging said guide groove, a spring between the bar and the clamping shoe tending to press the latter downward, and means for temporarily locking the bar in position and permitting the release of the clamps from the stock upon the completion of a downward stroke.

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

ROMAN EDWARD ADAM.

Witnesses:

ROBERT STRAHL,  
MAX D. ORDMANN.