

(No Model.)

J. R. HOLMES & J. F. EGAN.

LAST.

No. 323,933.

Patented Aug. 11, 1885.

Fig. 1.

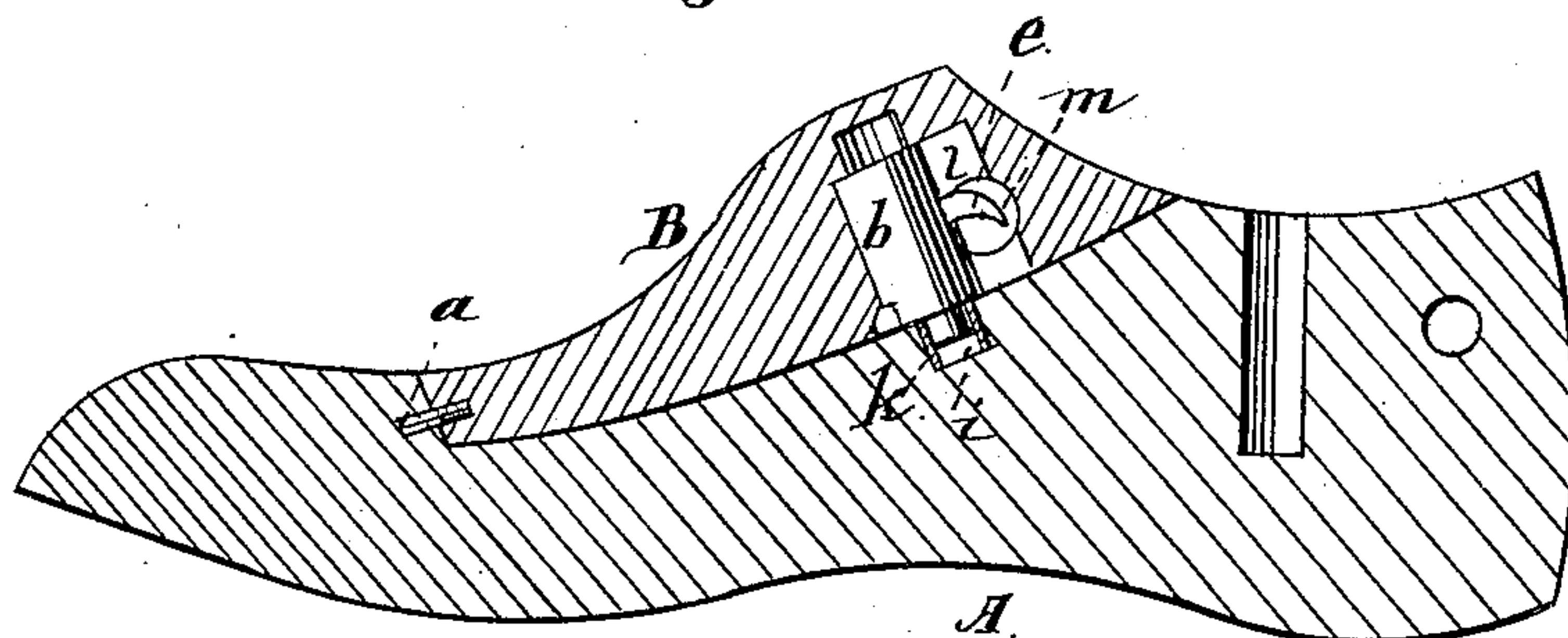


Fig. 2.

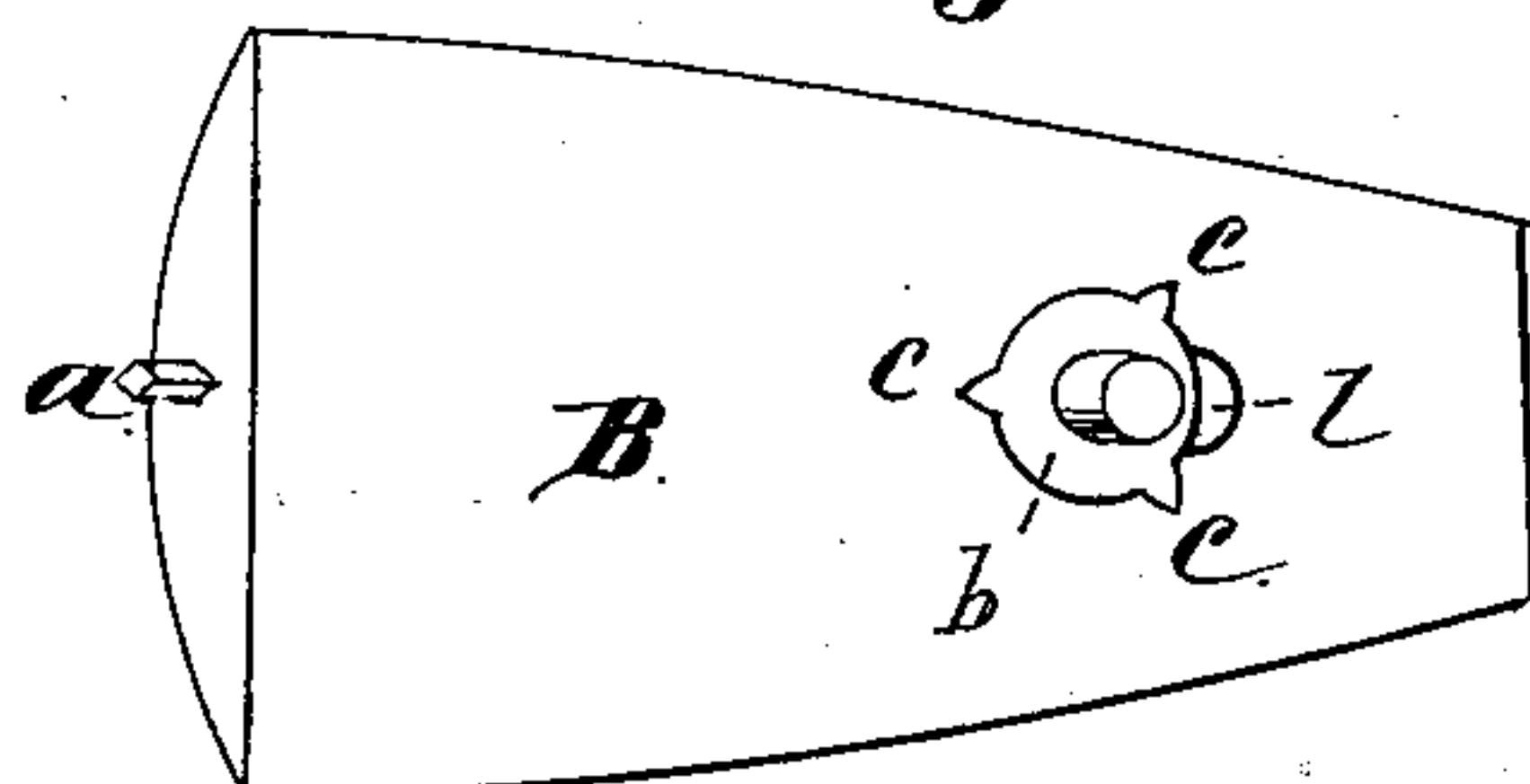


Fig. 3.

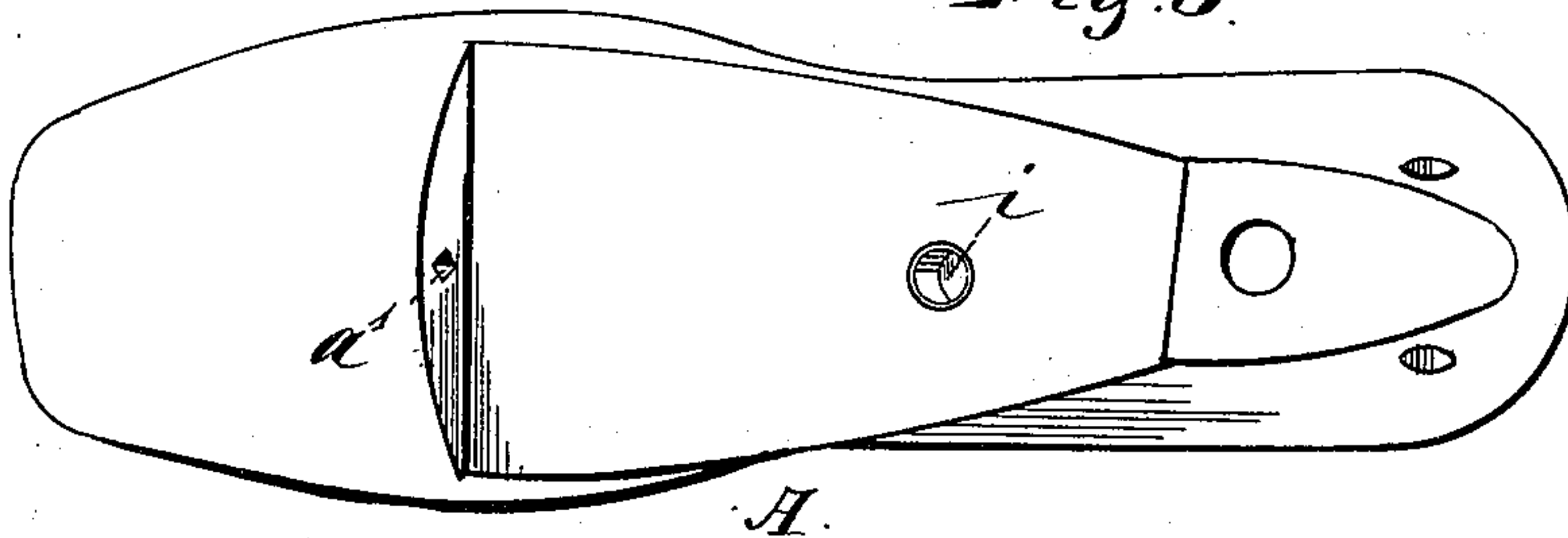
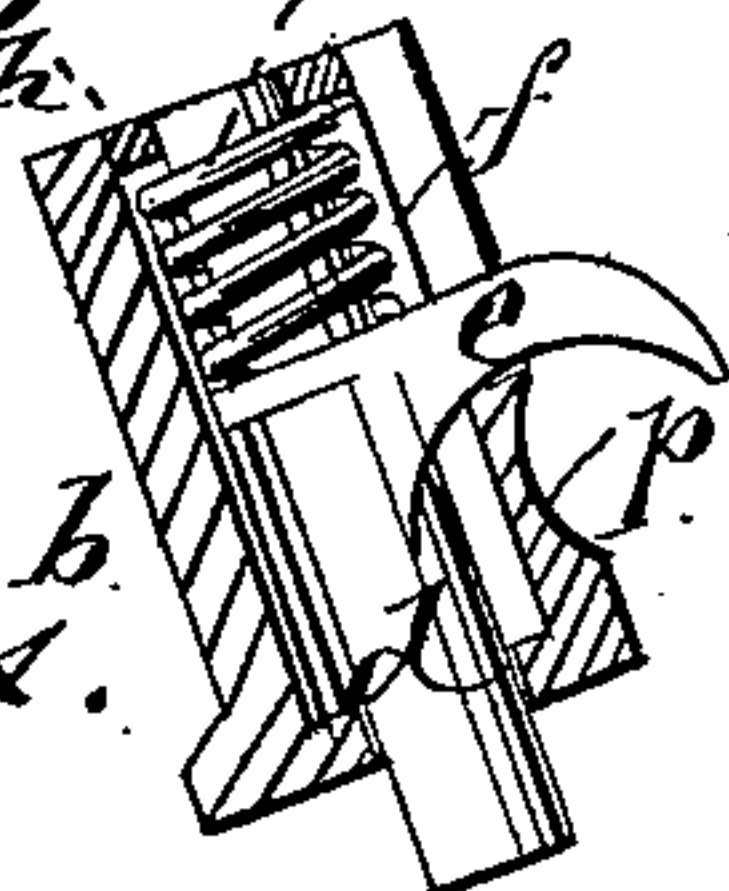


Fig. 4.



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LAST.

SPECIFICATION forming part of Letters Patent No. 323,933, dated August 11, 1885.

Application filed September 8, 1884. (No model.)

To all whom it may concern:

Be it known that we, JOSEPH R. HOLMES and JOHN F. EGAN, residing at Elgin, in the county of Kane and State of Illinois, and citizens of the United States, have invented a new and useful Improvement in Lasts, of which the following is a full description, reference being had to the accompanying drawings, in which—

Figure 1 is a longitudinal vertical section, some parts being in elevation. Fig. 2 is an under side view of the last-block. Fig. 3 is a top view of the last, the last-block being removed. Fig. 4 is an enlarged detail.

This invention relates to that class of lasts in which the upper or forepart section is secured to the lower section by means of a sliding spring-bolt carried by said upper section and adapted to enter a socket in the lower section.

The object of the invention is to provide simple and efficient means for retaining and guiding the spring-bolt so that it will not be liable to get out of order; also, to arrange the bolt-spring in such a manner that it cannot become detached or lost.

To these ends the invention consists in the combination and arrangement of parts, which will be hereinafter fully described, and then set forth in the claim.

The letter A represents the body of the last; B, the last-block.

a is a pin at one end of the last-block, which enters a hole, *a'*, in the last, as usual.

b is a metal socket inserted in the last-block, and held in place in any suitable manner. This can conveniently be done by providing the socket at its outer end with sharp projections *c*, to be driven into the wood of the block when *b* is inserted therein.

d is a spring-bolt, provided upon one side with a hook, *e*, which passes through a slot, *f*, in one side of the socket and projects beyond the same, as shown in Figs. 1 and 4.

g is a coil-spring encircling a portion of the bolt.

h is a piece of metal, which is inserted in the upper end of the socket *b* after the bolt and spring have been placed in position, and secured in place in any suitable known manner. This piece *h* has a hole, through which the upper end of the bolt *d* can pass.

i is a hole in the last, provided with a metal thimble, *k*.

The socket *b* is placed in the block at right

angles with its lower surface, and the hole *i* in the last has a corresponding inclination.

l is a recess cut in the last-block to permit the insertion and vertical movement of the hook *e*.

m is a hole through the last-block to receive a last-hook, as usual. The socket is cut away a little on one side, as shown at *p*, to facilitate the insertion of the last-hook.

The operation is as follows: When the last-block is placed upon the last, the pin *a*, being in the hole *a'*, and the bolt being forced outward by the action of the spring *g*, the end of the bolt will at first come in contact with one edge of the hole *i*. Now, if the block be pressed down the bolt will be forced back into the socket *b*. When the block is brought to the position shown in Fig. 1, the bolt will then be directly in line with the hole *i*, and the action of the spring will force the bolt into such hole, and since the bolt and the hole are at a considerable angle, as shown, the block will be held in place by the pin *a* and the bolt *d*. By inserting a last-hook in the hole *m* beneath the hook *e* and lifting, the bolt will be raised out from the hole *i*, and the last-block can be removed.

Our device is useful while the last is in use, preventing the block from slipping out of place; and when the last is not in use the block will be held in place with the body of the last, and is not likely to become detached therefrom, and thus each last-block can be easily kept with its last, ready for use when wanted.

The upper end of the bolt can enter a recess in the block above the socket.

What we claim as new, and desire to secure by Letters Patent, is—

The combination of the socket or tube *b*, having the vertical slot *f* and apertured top piece, *h*, the bolt *d*, having its bearing in said apertured top piece; and provided with a prong, *e*, extending through the slot *f*, and the spring *g*, encircling the upper part of the bolt and arranged within the socket *b*, with the lower last-section having a socket for the bolt, and the upper section having a transverse opening for the insertion of a bolt-releasing device, substantially as described.

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