

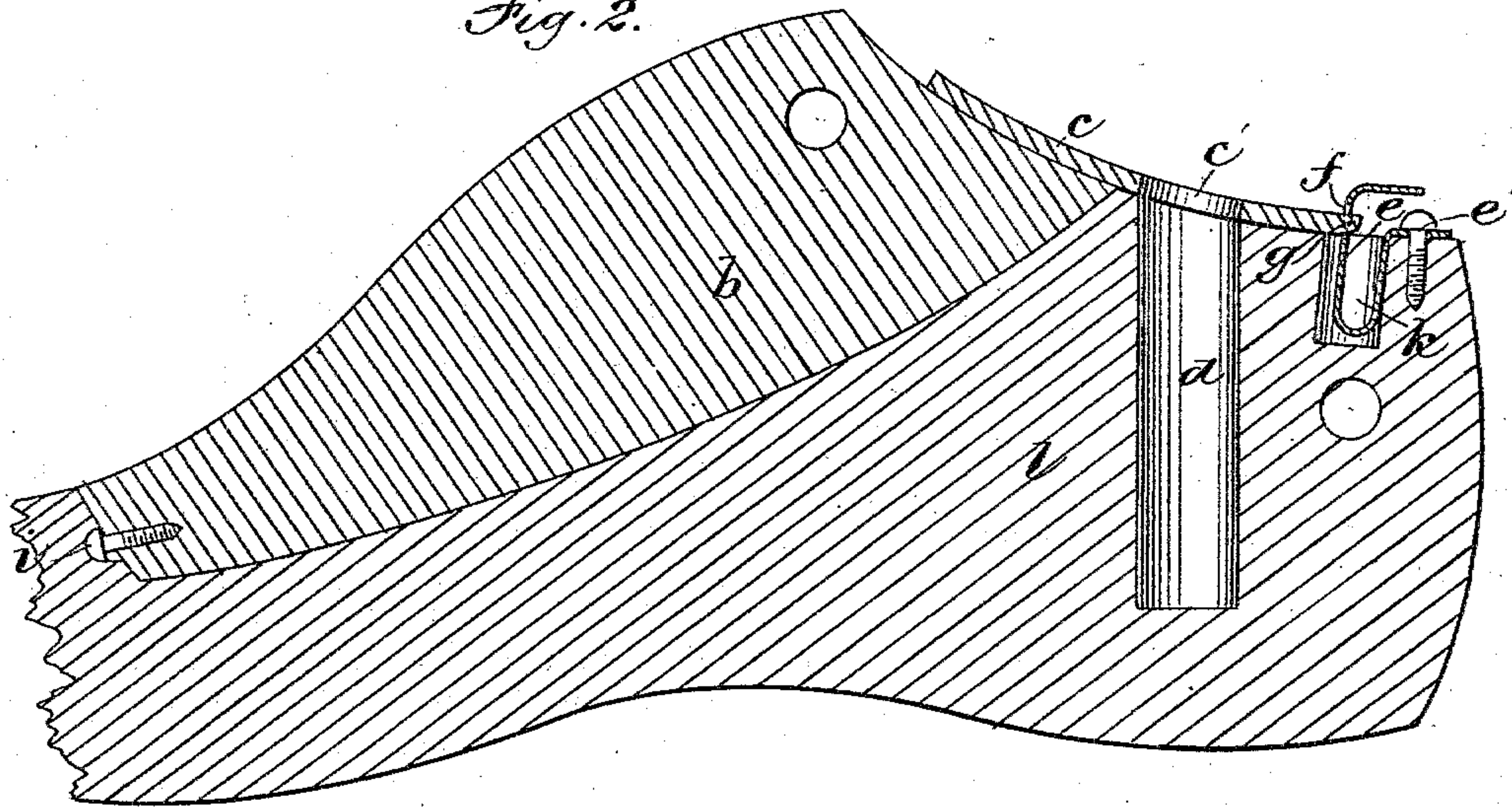
(No Model.)

H. R. SILLIMAN.  
LAST BLOCK FASTENER.

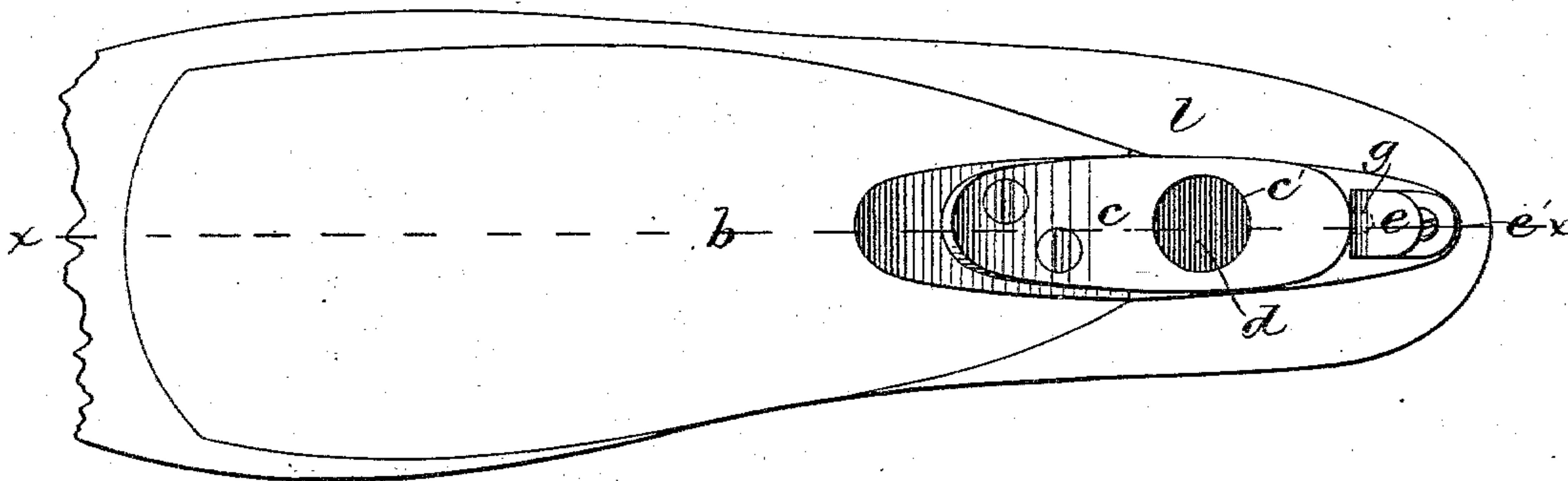
No. 281,147.

Patented July 10, 1883.

*Fig. 2.*



*Fig. 1.*



Witnesses:  
*Joseph Leath*  
*A. L. White*

Inventor:  
*H. R. Silliman*  
*by Wright & Brown*  
*Attys*



# UNITED STATES PATENT OFFICE.

HERBERT R. SILLIMAN, OF LYNN, MASSACHUSETTS, ASSIGNOR TO HIMSELF,  
ALONZO H. WHITTEN, AND GEORGE W. LASCELL, OF SAME PLACE.

## LAST-BLOCK FASTENER.

SPECIFICATION forming part of Letters Patent No. 281,147, dated July 10, 1883.

Application filed March 31, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, HERBERT R. SILLIMAN, of Lynn, in the county of Essex and State of Massachusetts, have invented certain Improvements in Last-Block Fasteners, of which the following is a specification.

This invention has for its object to provide simple and efficient last-block fastening devices, which shall serve also to protect the last-block and last from injury during the rough usage to which they are subjected. To this end my invention consists in the improvements which I will now proceed to describe and claim.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a top view of a last having my improved block-fastener. Fig. 2 represents a section on line *x x*, Fig. 1.

The same letters of reference indicate the same parts in all the figures.

In carrying out my invention, I attach rigidly to the upper end of the last-block *b* a metal plate, *c*, which projects backwardly from the block, and is adapted to rest on the upper portion of the last at the rear of the block. The projecting portion of the plate *c* is provided with an orifice, *c'*, adapted to coincide with the jack-spindle socket *d* in the last *l* when the block is in place on the last. To the last I attach by a screw or screws, at *e'*, a U-shaped spring, the body of which is contained in a vertical recess, *k*, in the last, while its free end projects above the upper surface of the last and is provided with an orifice, *f*, adapted to receive a projection, *g*, on the rear end of the plate *c*. Above the orifice *f* the free end of the spring *e* is bent backwardly, as shown in Fig. 2.

In fastening the last-block, a projection, *i*, on the lower or forward end of the block is engaged with a recess in the last in the usual manner, and the rear end of the plate *c* bears against the front side of the spring *e*, and displaces or presses the free end of said spring backwardly until the projection *g* snaps into the orifice *f*, when the free end of the spring resumes its normal position, so that the orifice *f* surrounds the projection *g* and prevents lateral, vertical, or longitudinal displacement of the block. The engagement of the locking device or spring *e* with the plate *c* is entirely

automatic, the attendant having only to press the block downwardly to its bearing on the last. When the block is to be released, a slight pressure on the rearwardly-bent end of the spring *e* removes the spring from the projection *g* and releases the block.

It will be seen that the plate *c* protects the thin upper end of the block, and also, by surrounding the jack-spindle, prevents the last from much of the injury it usually receives from said spindle. The recess *k* receiving the spring *e* prevents the latter from being displaced laterally, and enables it to hold the plate *c* firmly, so that the orifice *c'* of said plate will not get out of line with the socket *d*.

I do not limit myself to the precise construction shown and described of the plate *c* and the automatic locking device therefor, as it is evident that the details thereof may be variously modified without departing from the spirit of my invention. The projection *i* at the forward end of the last-block is, preferably, the rounded head of a screw inserted in the block. A projection of this form wears the last less than a sharp point or brad, such as has been used heretofore. The backwardly-projecting free end of the spring *e* is exposed, so that the operator can readily press upon it to displace the spring and release the block *b*.

I claim—

1. A last-block fastener composed of a projecting plate affixed to the exterior of the block, and provided with a projection, *g*, at its rear end, and a yielding spring secured at one end to the rear portion of the last, and provided with a perforation or recess in its free end, said spring adapted to be displaced by said projection, and to receive the latter into said recess when said projection and recess coincide, as set forth.

2. A last-block having a rigidly-attached projection-plate, *c*, projecting backwardly therefrom, and provided with the jack-spindle orifice *c'*, combined with the last having the spindle-socket *d*, coinciding with the orifice *c'*, and a spring-locking device, adapted to engage with the plate *c*, and prevent displacement of the block in any direction, and thereby keep the orifice *c'* in coincidence with the socket *d*, as set forth.

3. A last provided with a recess, *k*, extend-



ing downwardly from its exposed upper surface at the heel, and a U-shaped spring contained in said recess, and having a perforated or recessed free end adapted to yield to and  
5 automatically engage with a projecting plate attached to the last-block, as set forth.

4. A last provided with a recess, *k*, extending downwardly from its exposed upper surface at the heel, and a U-shaped spring contained in said recess, having a perforated or  
10 recessed end adapted to engage with a projecting plate attached to the last-block, said free end being extended backwardly to enable the spring to be disengaged from said projection,  
15 as set forth.

5. The combination of a last-block having the projecting plate *e*, provided with the jack-spindle orifice *c'* and projection *g*, and a last having a U-shaped spring, *e*, set in a recess in the last, and provided with a perforation  
20 adapted to receive the projection *g*, as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 27th day of March, 1883.

HERBERT R. SILLIMAN.

Witnesses:

GEO. W. LASCELL,

L. J. DAY.