

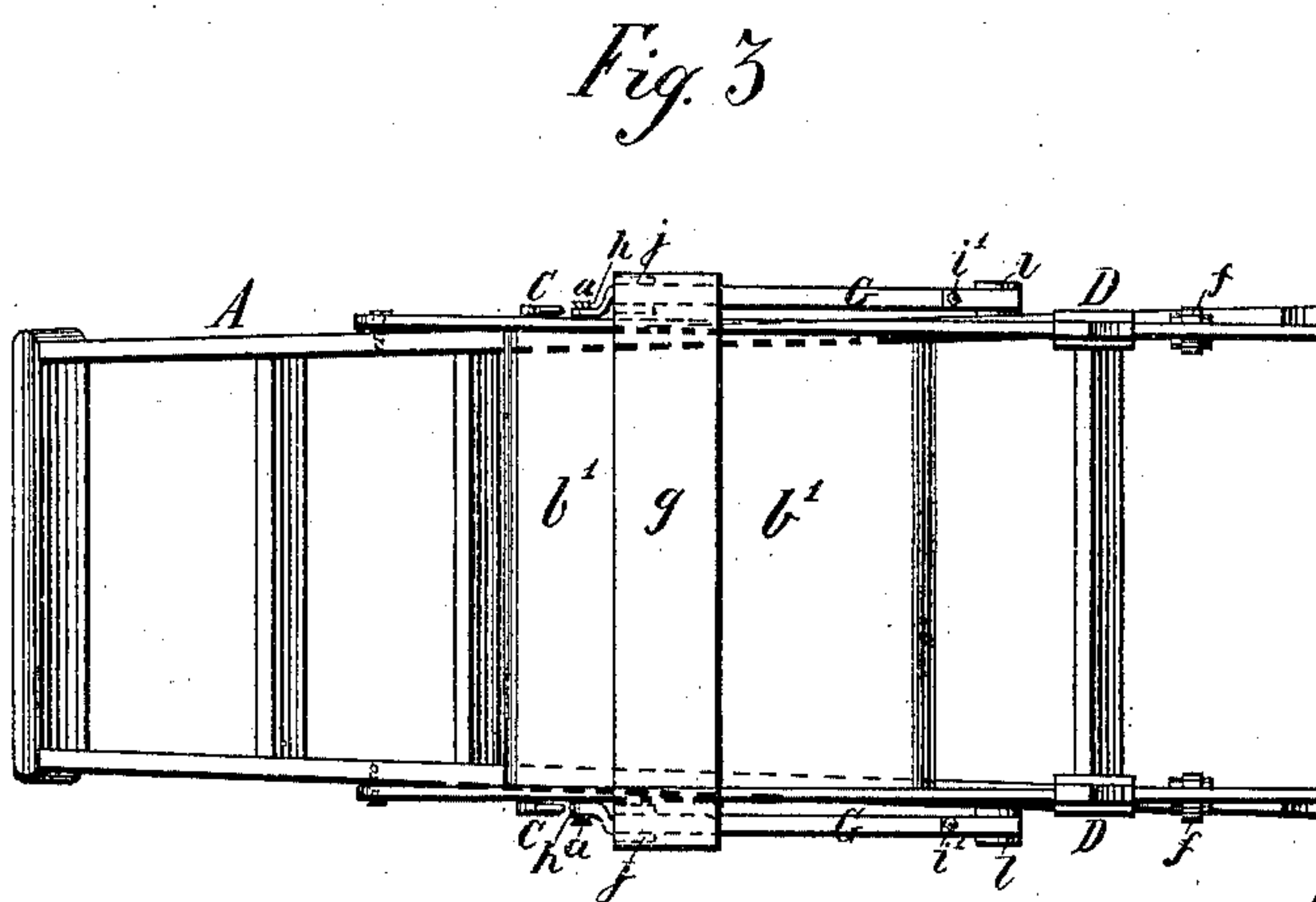
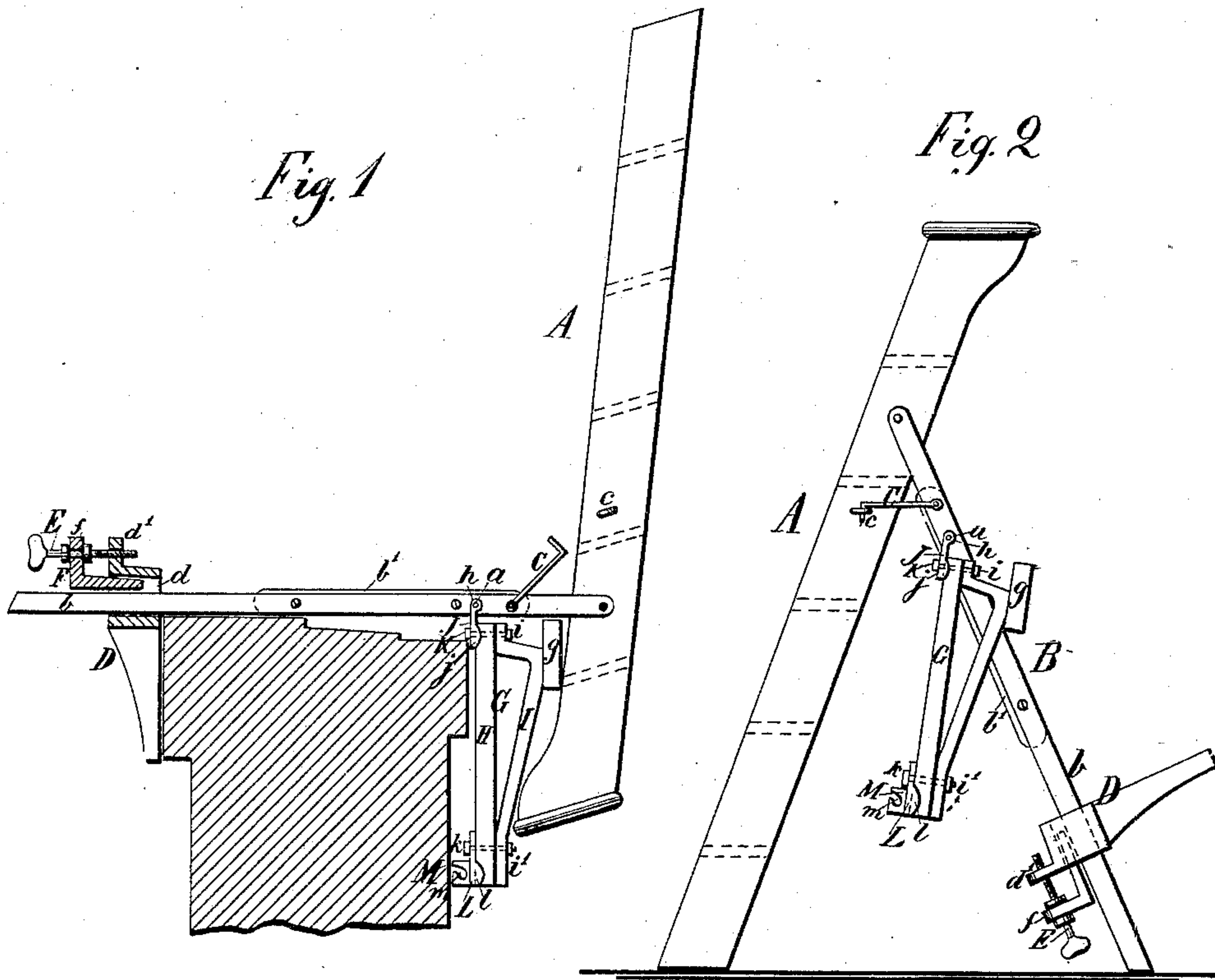
(No Model.)

M. S. KJELLSTRÖM.

COMBINED STEP LADDER AND WINDOW SCAFFOLD.

No. 257,226.

Patented May 2, 1882.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

MARY S. KJELLSTRÖM, OF NEW YORK, N. Y.

## COMBINED STEP-LADDER AND WINDOW-SCAFFOLD.

SPECIFICATION forming part of Letters Patent No. 257,226, dated May 2, 1882.

Application filed February 16, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, MARY S. KJELLSTRÖM, a citizen of the United States, and resident of New York, in the county and State of New York, have invented a new and useful Improved Combined Step-Ladder and Window-Scaffold, of which the following is a specification.

The object of my invention is to provide an improved apparatus which may be adjusted in position for use as a step-ladder, and also as a scaffold for washing windows, and other purposes.

The invention consists in the construction and combination, with an ordinary step-ladder, of a hinged leg-frame with adjustable devices, as hereinafter described, attached thereto, by which the said leg-frame is enabled to serve as legs for the support of the device when used as a ladder, and as a platform to attach the same in position as a window-scaffold, and at the same time acting as a support to protect from danger of falling the person using said scaffold, as will be hereinafter described and claimed.

In the accompanying drawings, Figure 1 represents the apparatus attached to a window-sill, in position for use as a scaffold. Fig. 2 is a side elevation of the same when in position for use as a step-ladder; and Fig. 3 is a view of the same, taken in the direction of the arrow in Fig. 2, and folded.

Similar letters of reference indicate corresponding parts in the different figures.

A is the ladder proper.

B is the leg-frame, hinged by the legs *b* to the ladder proper, and having a platform or board, *b'*, secured between the legs *b* to brace them together, said board *b'* serving as a support for the feet of the person using the apparatus as a scaffold.

C are the hooks pivoted to the legs *b*, and which catch into staples *c* on the side of the ladder A, to brace the same in position for use as a step-ladder.

D are bars or brackets arranged to slide upon the legs *b* in a position at about right angles to the said legs, the said brackets having for that purpose a socket, *d*, through which the legs pass. A wedge or key, F, suitable to enter the socket *d*, in contact with the edge of the leg *b*, is provided with a lug, *f*, and in this

is provided a swivel or adjusting screw, F, whose threaded end enters a suitable threaded lug, *d'*, on the bracket D, so that when the apparatus is to be used as a scaffold the said bracket D may be moved up close against the inside of the window-sill and secured in said position by the wedge F, tightened by the screw E, as shown in Fig. 1.

To each of the legs *b* is hinged at *a* a bracket, G, constructed as will hereinafter appear, and the two brackets G are connected and braced together by a board, *g*, reaching across the leg-frame B, and whose upper edge bears against the under edge of the legs *b*, so as to retain the bracket at right angles to the leg-frame against the pressure of the tightened bracket D, and thus retain the platform *b'* firmly in the position shown in Fig. 1. Each of the brackets G is constructed with a wooden bar, H, and a triangular metallic bracket, I, the latter having perforated end flanges, *i i'*, to receive the bolts by which it is fastened to the bar H.

To the upper end of the wooden bar H is secured, by a bolt, K, a metallic casting, J, having on its two opposite edges lips *j*, embracing the two opposite edges of the said bar H, and a perforated lug, *h*, by which latter the bracket G is pivoted at *a*, as before stated. The bolt K passes through the casting J, the bar H, and the flange *i* simultaneously, and thus, in conjunction with the lips *j*, serves to clamp the said parts K, H, and *i* together, and to retain the said casting J in proper position without the necessity of additional bolts.

To the lower end of the bar H is secured, by a bolt, *k*, another casting, L, having side lips, *l*, similar to the lips *j*, which said lips *l* embrace the two opposite edges of the bar H. The bolt *k* goes through the casting L, the bar H, and the flange *i'* of the bracket I, thus securing the three together. Upon the face of the casting L is a lug, M, which, when the bracket is in position, as shown in Fig. 1, bears against the outside of the wall or projection against which it may be placed. The lug M has a downwardly-curved slot, *m*, for the reception of a rod reaching across the apparatus from one to the other of the said lugs M, and projecting beyond the same. The purpose of the said rod is to bear against any inequalities from



ornaments or other projections on the wall, which, by reason of such inequalities, do not afford contact-surfaces for the lugs M.

When the apparatus is folded or in position for use as a step-ladder the brackets G should be folded upon the legs *b*, although to better exhibit the construction of the apparatus they are shown in Fig. 2 as swung forward a little over the said legs. When used as a scaffold the steps and frame of the ladder proper, A, serve as a fence to protect from falling the person standing on the platform *b'*, while the frame of the ladder A bears against the board *g*, below the pivot of the legs *b*, which connects the two brackets G, and thus prevents the ladder from swinging outward from the position shown in Fig. 1.

It is evident that by sliding the brackets D on the legs *b* and clamping them by the screw E and wedge F the apparatus can be attached to walls of any thickness and be securely held in position.

The brackets G do not interfere with the use of the apparatus as a step-ladder, or with the folding of the same, and the brackets D, if desired, can be slid off the legs *b* and removed when not needed for use.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In combination with the hinged leg-frame B of a ladder, A, provided with the exterior platform-supporting brackets, G, the socketed sliding brackets D, and the screw-clamped

tightening-wedges F, to support the apparatus as a window-scaffold, substantially as set forth. 35

2. In combination with the hinged leg-frame B and ladder A, the brackets G, hinged to the said leg-frame, and provided with the cross bar or board *g*, bearing with its upper edge against the leg-frame and with its outer edge against the ladder-frame when in use as a scaffold, substantially as and for the purpose set forth. 40

3. In combination with the leg-frame B of the ladder A, the brackets G, consisting of the bar H, the triangular bracket I, having flanges *i i'*, the lipped casting J, having pivoting-lug *h*, the lipped casting L, having lug M, and the fastening-bolts K *k*, substantially as specified. 45 50

4. In combination with the platform-supporting brackets G of a combined step-ladder and window-scaffold, the castings L, having lugs M, and curved slots *m* in the said lugs, for the reception of a rod to afford bearing against the outer wall, substantially as specified. 55

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 11th day of February, 1882. 60

MARY S. KJELLSTRÖM.

Witnesses:

GERSON GOLDSTEIN,  
C. A. LIDMAN.