

(No Model.)

H. W. BULLOCK.
WINDOW SCAFFOLD.

No. 536,265.

Patented Mar. 26, 1895.

Fig. 1.

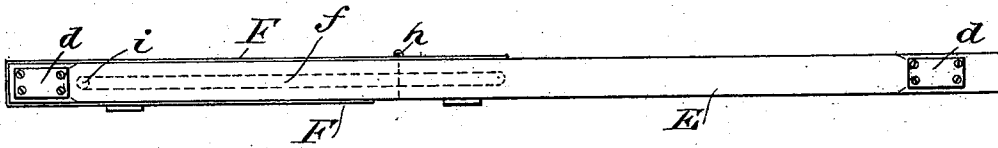


Fig. 2.

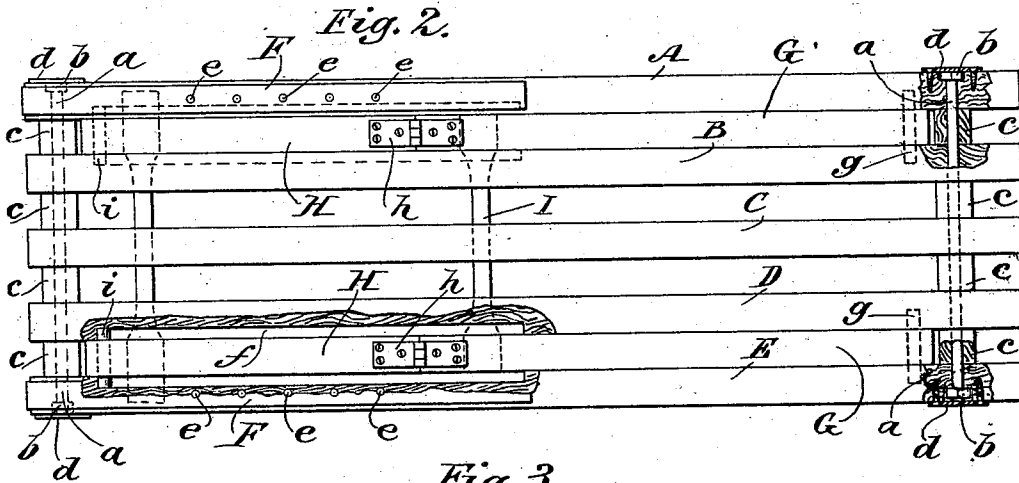


Fig. 3.

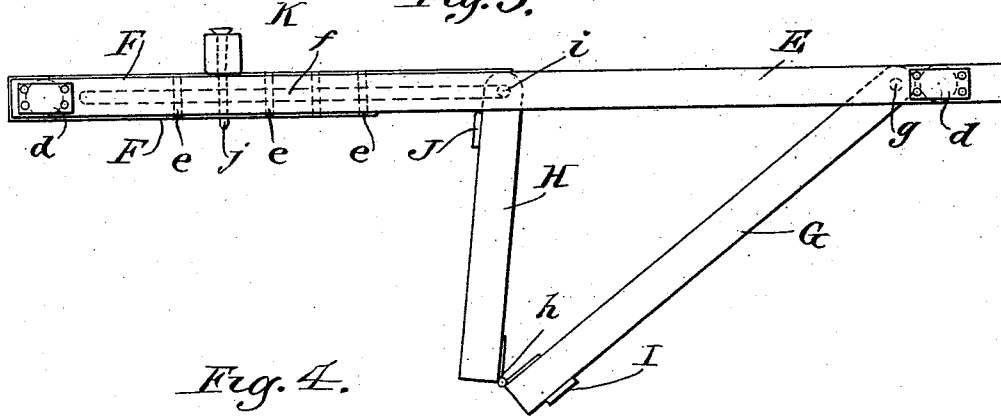
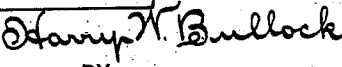


Fig. 4.

WITNESSES:   INVENTOR

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UNITED STATES PATENT OFFICE.

HARRY W. BULLOCK, OF CHAPPAQUA, NEW YORK.

WINDOW-SCAFFOLD.

SPECIFICATION forming part of Letters Patent No. 536,265, dated March 26, 1895.

Application filed June 8, 1894. Serial No. 513,853. (No model.)

To all whom it may concern:

Be it known that I, HARRY W. BULLOCK, a citizen of the United States, and a resident of Chappaqua, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Window-Scaffolds, of which the following is a specification.

This invention relates to scaffolds of that class which are adapted to be applied to windows and secured by a bracket bearing against the outer wall of the building beneath the window and by a rod or beam bearing on the inside of the sill or frame.

The object of my invention is to provide a device of this character which may be folded up when not in use for readiness of transportation; which shall adjust itself with respect to the window-frame, and to the horizontal distance between such and the wall of the building; and further to produce a scaffold of this class which may be cheaply constructed and yet be of such strength as to endure the heaviest strains.

The invention consists in the novel construction and arrangement of parts hereinafter fully described.

In the accompanying drawings forming part of this specification, in which like letters of reference designate corresponding parts throughout, Figure 1 is a side elevation of a scaffold constructed according to my invention, the brackets thereof being folded. Fig. 2 is a plan view of the same. Fig. 3 is a side elevation of the device with the folding brackets thereof extended, and the beam which engages with the window-frame being mounted thereon. Fig. 4 is an elevation of the said beam.

In the practice of my invention, I construct a plurality of wooden or other slats A, B, C, D and E, preferably five in number, and these I secure at either end by means of bolts *a* passing through the same laterally, and having mounted upon the ends thereof nuts *b*, which said nuts are countersunk in the outer sides of the slats A and E.

Mounted upon the bolts between each of the slats are tubular blocks or spools *c*, which serve to maintain the said slats equidistant

from each other and also in conjunction with the said bolts *a* to secure the same rigidly together. The nuts *b* are locked in place and protected by means of rectangular or other metallic plates *d*, screwed upon the outer sides of the slats A and E at each end, immediately above the said nuts.

Upon the top and bottom of the slats A and E, at the rear end thereof or that which projects into the room, I secure longitudinal braces or protector-plates F, which extend from a point approximately at the center of the scaffold upon the upper side thereof, around the rear ends of the slats A and E and upon the under side of the same to a point less than half way of its length, these protector-plates being secured to the slats by any desired means. Extending through the said plates and through the body of the slats covered thereby are holes *e*, those in the one slat aligning with those in the opposite one. Upon the inner side of the slats A and B and of the slats D and E are formed elongated grooves *f* ranging from a point near the rear end of the scaffold to about the center thereof.

Pivoted at the forward end of the scaffold in the slats A and B and the slats D and E, are the bars G, forming part of the supporting bracket, which said bars are pivoted in the said slats by means of the pins *g*. These bars are of such a width as to fit between the slats, and at the lower or free ends thereof are attached the bars H, movably secured to the said bars G by means of hinges *h* secured upon the upper sides of each of the said bars. These bars H have passing through the same upon their upper ends pins *i*, which slide in the grooves *f*.

At the lower ends of the bars G, the same are secured to each other by means of a cross-brace I, the bars H being likewise secured at the top by a similar cross-brace J, which however extends beyond the bars H and serves, when the same are in the upright position, to help support the slats A and E. These braces I and J are reduced at the middle to facilitate the grasping thereof in operating the device.

The securing beam K, which engages with

the frame of the window, I construct of any approved shape, and of a length sufficient to extend beyond the scaffold at either side. This beam is apertured in alignment with two
 5 of the holes *e* which extend through the protecting plates *F* and the slats *A* and *E*, and the said beam is secured to the scaffold by pins *j*, which pass entirely through the slats and below the lower part of the upper plate
 10 *f* thereof, the beam thereby being tightly held in position.

The operation of the device will be readily understood from the foregoing description taken in connection with the accompanying
 15 drawings, particularly to such as are conversant with the especial class of devices to which my invention appertains.

The scaffold is placed upon the window-sill with the rear end thereof extending into the
 20 room and the cross-brace *I* is then grasped, and drawn or pushed downwardly and outwardly until the bracket assumes the position shown in Fig. 3. The scaffold is then drawn inwardly until the lower end of the
 25 bracket bars *H* abut against the outer wall of the building whereupon the beam *K* is laid upon the scaffold and against the window-frame and the pins *j* inserted through the same and into the holes *e* in the slats *A* and
 30 *E*. This being accomplished, the scaffold will rest upon a substantial level, or with the forward end thereof slightly raised, and will be securely maintained in such position. The painter, mason, builder or other operator may
 35 then stand or sit upon the forward end of the scaffold outside of the window with the utmost security, which is but added to by increase of weight.

If desired, a clamp may be attached to the scaffold to secure the same upon the outside
 40 sill of the window, but ordinarily this need not be used, care being taken not to stand or bear upon that portion of the scaffold within the room.

Should it be desired to mount the scaffold from the outside of the building, a ladder may be placed against the bracket or the scaffold or even rested upon the cross-brace
 45 *I*, and the ascent or descent thereof will not dislodge the scaffold or move the same in the slightest.

If desired a rope-ladder might be suspended from the end of the slats.

In the removal of the device, the platform
 55 is seized at the rear end and forced or tilted downwardly and rearwardly. The bracket bars *H* are then drawn to the horizontal position through the agency of the cross-brace *J*, the bracket thereupon closing to the position
 60 shown in Figs. 1 and 2, when the whole may be withdrawn into the room, or the beam *K* being removed, the scaffold may be lowered to the ground below.

I do not desire to confine myself to the ex-
 65 act details of construction herein set forth

and illustrated as I claim my invention to be broadly novel in the use of the folding or collapsible bracket, in the self-securing beam, and removable pins, in the grooving of the
 70 slats, as well as in the other features, elements, and mechanism shown.

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

1. A collapsible scaffold, comprising a platform composed of a plurality of slats secured
 75 together, bars pivoted at the forward end thereof, similar bars hinged thereto and pivoted in two or more of the slats and sliding in longitudinal grooves therein, and means
 80 for holding the said scaffold to the window sill or frame, substantially as shown and described.

2. A collapsible window scaffold, comprising a platform constructed of a plurality of
 85 slats, bars pivoted at each side thereof between the slats, similar bars hinged thereto at each side and pivoted in grooves in the slats extending from the center of the scaffold approximately to the end thereof, the
 90 said bars being of such a width as to rest between two of the slats, and means for holding the said scaffold to the window sill or frame, substantially as shown and described.

3. In a window scaffold, the combination,
 95 with a platform comprising a plurality of slats, having a plurality of holes therein at the rear, and a folding bracket pivoted thereto at the forward end and pivoted at the rear in elongated grooves therein, of a beam extend-
 100 ing across the said platform and beyond its sides, and pins adapted to be inserted through the said beam and into the holes in the slats, substantially as shown and described.

4. In a window scaffold, the combination,
 105 with a platform comprising a number of slats secured together at each end and having longitudinal grooves in the rear thereof, bars pivoted in the said slats at the forward end,
 110 and similar bars hinged thereto and working therein, both of the said bars being of such a width as to rest between the slats, of a beam extending across the said platform and beyond its sides, and pins adapted to be inserted
 115 through the said beam and into the holes in the scaffold, substantially as shown and described.

5. In a window scaffold, the combination, with a platform comprising a plurality of
 120 slats, bolts securing the same together at each end, nuts mounted upon the bolts, protecting plates secured over the nuts, metallic braces secured upon the upper and under sides of the outer slats, holes extending through the
 125 said braces and through the slats at each side thereof, bars pivoted in the said slats at each side, similar bars movably secured thereto by hinges on the top thereof, and pivoted in the grooves in the slats, and cross-braces securing the forward and the rear bars together re-
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spectively, both of the said bars being of such
a width as to rest between the slats, of a beam
extending across the said platform and be-
yond its sides, and pins passing through the
5 said beam and into the holes in the scaffold,
substantially as shown and described.

In testimony that I claim the foregoing as

my invention I have signed my name, in pres-
ence of two witnesses, this 23d day of May,
1894.

HARRY W. BULLOCK.

Witnesses:

ISRAEL A. HAIGHT,

GEORGE W. HAIGHT.