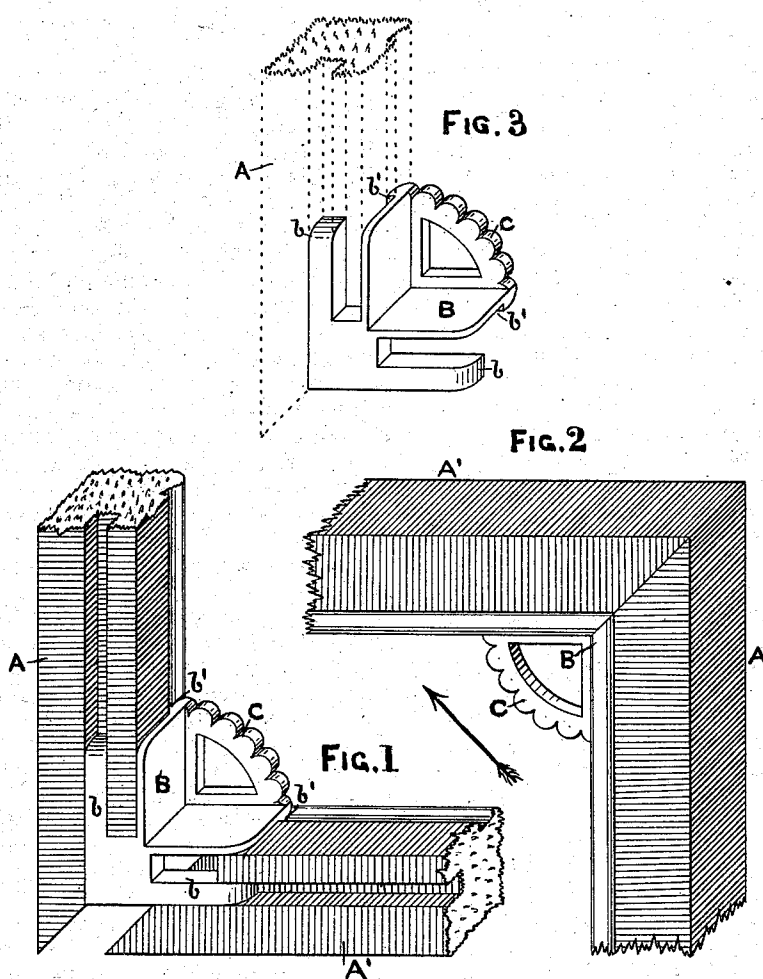


J. W. D. & H. KELLEY.
Clasp-Fastenings for the Corners of Window-Screen
Frames.

No.154,953.

Patented Sept. 15, 1874.



Witnesses:
A. McCallum
P. Hannay

Inventors:
James W. D. Kelley
Harrison Kelley
by W. B. Richards,
att'y.

UNITED STATES PATENT OFFICE.

JAMES W. D. KELLEY AND HARRISON KELLEY, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN CLASP-FASTENINGS FOR THE CORNERS OF WINDOW-SCREEN FRAMES.

Specification forming part of Letters Patent No. **154,953**, dated September 15, 1874; application filed February 7, 1874.

To all whom it may concern:

Be it known that we, JAMES W. D. KELLEY and HARRISON KELLEY, of Chicago, county of Cook and State of Illinois, have invented certain Improvements in Metallic Clasp-Fastenings for the Corners of Wire-Screen Frames, of which the following is a specification:

The nature of our invention relates to improvements in metallic clasps for securing the corners of wire-screen frames, such as are used for doors, windows, &c.; and the invention consists in constructing the clasp in such form that the side and end bars, being first suitably shaped, may be passed into the clasp in such manner as to be securely held when the wire screen is attached to the frame, the clasp being at the same time so formed as to receive the wooden frame-pieces in a favorable way to avoid splitting pieces therefrom, and also in a favorable way to prevent contact between the wire screen and the metallic clasp; and, further, to secure cheapness of construction and ornate appearance, all as hereinafter fully described.

In the accompanying drawings, Figure 1 is a perspective view, rear side to the front, of our clasp and the adjacent ends of two sides of a frame, one side of the frame fully inserted and the other only partially, the better to show the invention. Fig. 2 is a perspective view of the same parts, the other side to the front, and both frame-pieces fully inserted; and Fig. 3 is a perspective view of the clasp in full lines and one side of the frame in dotted lines.

Referring to the parts by letters, letters A, A' represent the adjacent ends of two sides of a frame or the corner. B represents the clasp, which may be of any suitable metal, its form being such that it may be formed of even the commonest cast-iron and still have sufficient strength without too much size. It is shaped as plainly shown in the drawings, with projecting ends *b b*, which fit into corresponding grooves in the rear sides of the frame-pieces

A A', and ledges *b' b'*, which fit into corresponding grooves in the inner sides of the frame-pieces. The projecting ends of the clasp are strengthened and braced by a connecting-piece, C, which is cast, with all of the other parts, in one solid piece.

The manner of putting the frame together is deemed simple to those skilled in the art from an inspection of Fig. 1, where frame-piece A is shown pushed entirely into its proper place, and frame-piece A' only partially inserted, the insertions being made by pressing them forward endwise until their beveled ends meet. The bars *b b* act to sustain the corners of the frame against strain in the direction of the arrows at Fig. 2, and the ledges *b' b'* sustain them against twisting strain. When the corners are put together and the wire screen attached to the frame the whole will be held securely in place, and when the screen is removed, or before it is attached, the corners may be readily and easily taken apart for storing, shipping, &c. The clasp will sustain the corners firmly without being squeezed or pressed into to tighten it after it is in place, presenting any desirable finish in front, and leaving the face on the rear side clear for the attachment of the wire screen without contact with the clasp. The bar *b* is seated, too, in such manner as not to be liable to split pieces from the frame, and there is no connection of the clasp to the front side of the frame-pieces by which their fronts could in any manner be marred or defaced.

We claim—

The metallic clasp B, having projections *b* and ledges *b'*, so as to unite the corners of a frame, in manner substantially as and for the purpose specified.

JAMES W. D. KELLEY.
HARRISON KELLEY.

Witnesses:

HENRY E. LOWE,
CHAS. HENROTIN.