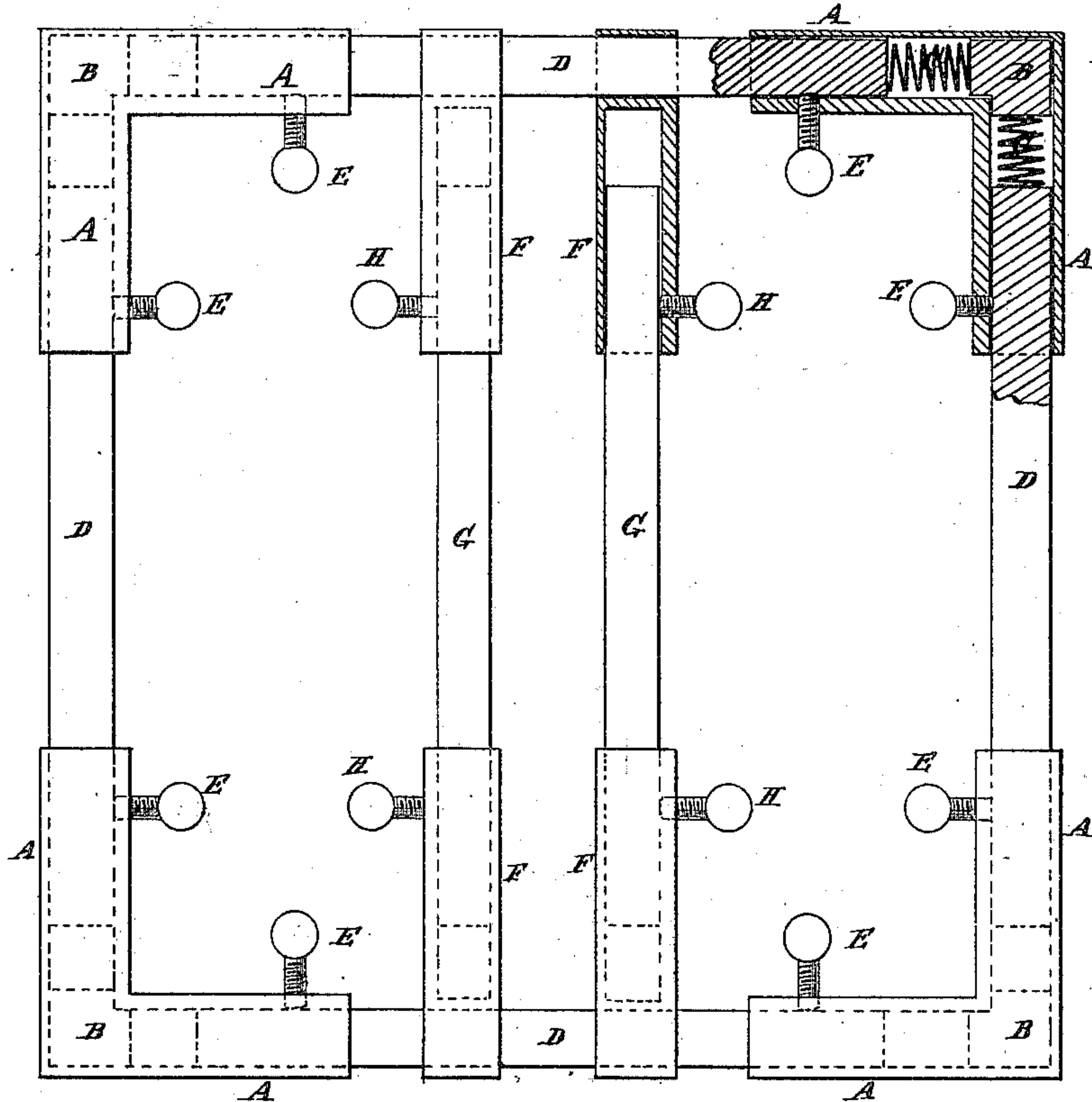


J. R. & G. W. SIMPSON.

EXTENSIBLE-FRAMES FOR WINDOW-SCREENS, &c.

No. 172,511.

Patented Jan. 18, 1876.



WITNESSES:

*A. W. Almquist*  
*J. Goethals*

INVENTOR:

*J. R. Simpson and*  
*G. W. Simpson*  
BY

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JOHN R. SIMPSON AND GEORGE W. SIMPSON, OF NEW YORK, N. Y.

## IMPROVEMENT IN EXTENSIBLE FRAMES FOR WINDOW-SCREENS, &c.

Specification forming part of Letters Patent No. **172,511**, dated January 18, 1876; application filed December 27, 1875.

*To all whom it may concern:*

Be it known that we, JOHN R. SIMPSON and GEORGE W. SIMPSON, of the city, county, and State of New York, have invented a new and useful Improvement in Extension-Frames, of which the following is a specification:

The figure is a front view of our improved frame, parts being broken away to show the construction.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved frame, designed especially for a fire-board frame, but which may be used for a window-screen frame, and for other purposes, which shall be so constructed that it may be readily expanded and contracted, to adjust it to fire-places and windows of various sizes.

The invention consists in the combination of the angle-sockets, the angle-blocks, the spiral springs, and the bars with each other; in the combination of the set-screws with the angle-sockets, the angle-blocks, the spiral springs, and the bars, and in the combination of the sockets, the bars, and the set-screws with the bars of the extension-frames, as hereinafter fully described.

A are four right-angled sockets, which form the four corners of the frame. In the angles of the four sockets A are placed angular blocks B, upon the ends of which, within the arms of the sockets A, rest the ends of spiral springs C. In the arms of the sockets A are placed the ends of the four bars D, which form the sides of the frame. The sockets A are made of thin sheet metal, so that tacks can be driven through it into the ends of bars C, and into the corner-blocks B, to secure the canvas

or netting to the frame. When the frame has been adjusted to the proper size the bars D may be secured in place by set-screws E, passing in through the inner sides of the end parts of the sockets A, and resting against the side bars D. F are sockets in the outer ends of which are formed holes to receive the bars D. In the sockets F are placed the ends of two bars, G, which are secured in place, when adjusted in said sockets, by set-screws H. Springs may be used in the sockets F for the ends of the bars G to rest against, if desired.

The bars G are designed to receive and support the thimble for a stove-pipe to pass through, when required, and may be adjusted laterally, according to the size of said thimble, and longitudinally, according to the adjustment of the extension-frame.

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

1. The combination of the angle-sockets A, the angle-blocks B, the spiral springs C, and the bars D, substantially as herein shown and described.

2. The combination of the set-screws E with the sockets A, the angle-blocks B, the spiral springs C, and the bars D, substantially as herein shown and described.

3. The combination of the sockets F, bars G, and set-screws H with the bars D of the extension-frame A B C D, substantially as herein shown and described.

JOHN R. SIMPSON.

GEORGE W. SIMPSON.

Witnesses:

JAMES T. GRAHAM,  
T. B. MOSHER.