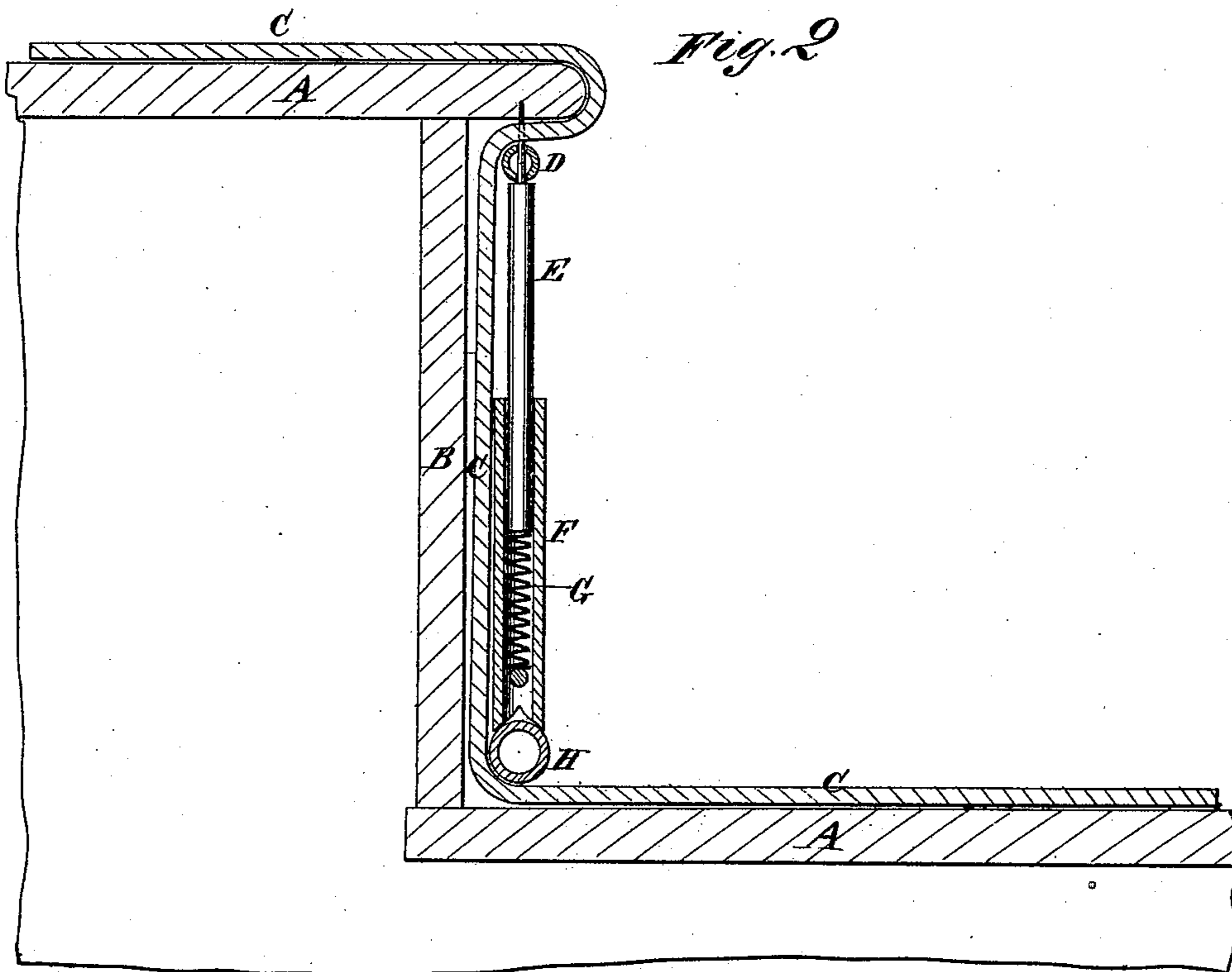
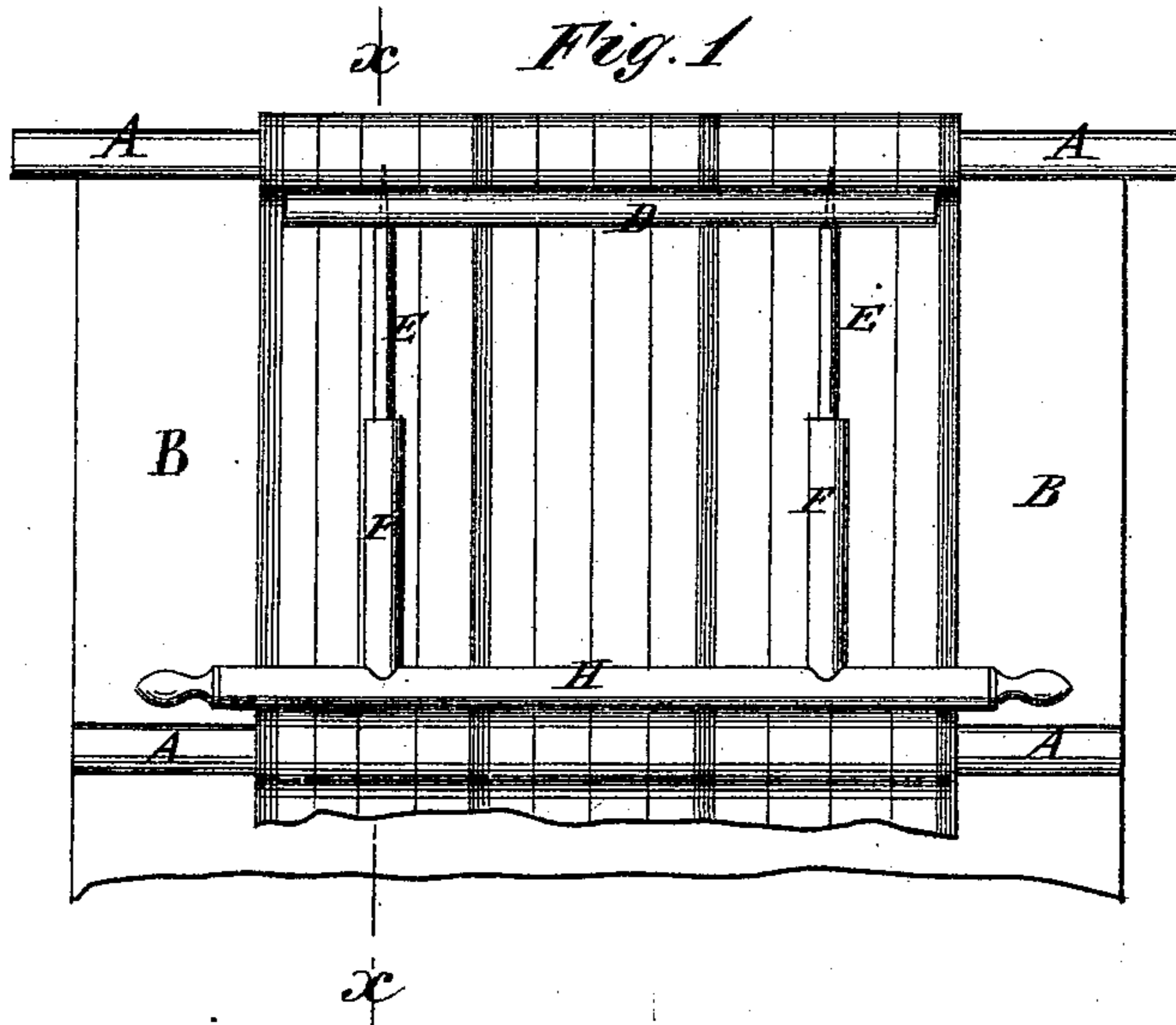


G. W. HILL.

STAIR-ROD.

No. 178,927.

Patented June 20, 1876.



WITNESSES:

A. W. Arngqvist
John Goethals

INVENTOR:

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UNITED STATES PATENT OFFICE.

GEORGE W. HILL, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN STAIR-RODS.

Specification forming part of Letters Patent No. **178,927**, dated June 20, 1876; application filed June 6, 1876.

To all whom it may concern:

Be it known that I, GEORGE W. HILL, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Stair-Rods, of which the following is a specification:

Figure 1 is a front view of a portion of a stairs to which my improvement has been applied. Fig. 2 is a vertical section of the same, taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved device for securing a stair-carpet in its place upon a stairs, which shall be simple in construction, conveniently applied and detached, and, when attached, will hold the carpet securely.

The invention consists in the combination of the upper rod or tube, the pointed rods, the tubes, the coiled springs, and the lower rod or tube with each other, to adapt the device for securing stair-carpets to stairs, as hereinafter fully described.

A represents the horizontal boards, and B the vertical boards of the stairs. C is the carpet. D is a small rod or tube, through which, near its ends, are formed holes to receive the points formed upon the upper ends of the rods E, which points are made of such a length as to pass through the carpet and enter the under side of the projecting edge of the step A,

as shown in Fig. 2. The lower ends of the rods E enter the upper ends of two short tubes, F, and rest upon the upper ends of the spiral springs G, placed in the lower parts of the said tubes F. The lower ends of the tubes F are notched, to rest upon the rod or tube H, as shown in Figs. 1 and 2.

In applying the device, the rod D is placed in the angle between the projecting edge of the step A and the upright board B, with the points of the rods E entering the lower side of said projecting edge. The rod or tube H is then placed in the notches of the tube F, and is rolled inward until the device lies snugly against the vertical board B, where it is held securely in place by the tension of the springs G. The rods D H may be round or flat, as may be desired.

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

The combination of the upper rod or tube D, the pointed rods E, the tubes F, the coiled springs G, and the lower rod or tube H, with each other, to adapt the device for securing stair-carpets to stairs, substantially as herein shown and described.

GEORGE W. HILL.

Witnesses:

JAMES T. GRAHAM,
T. B. MOSHER.