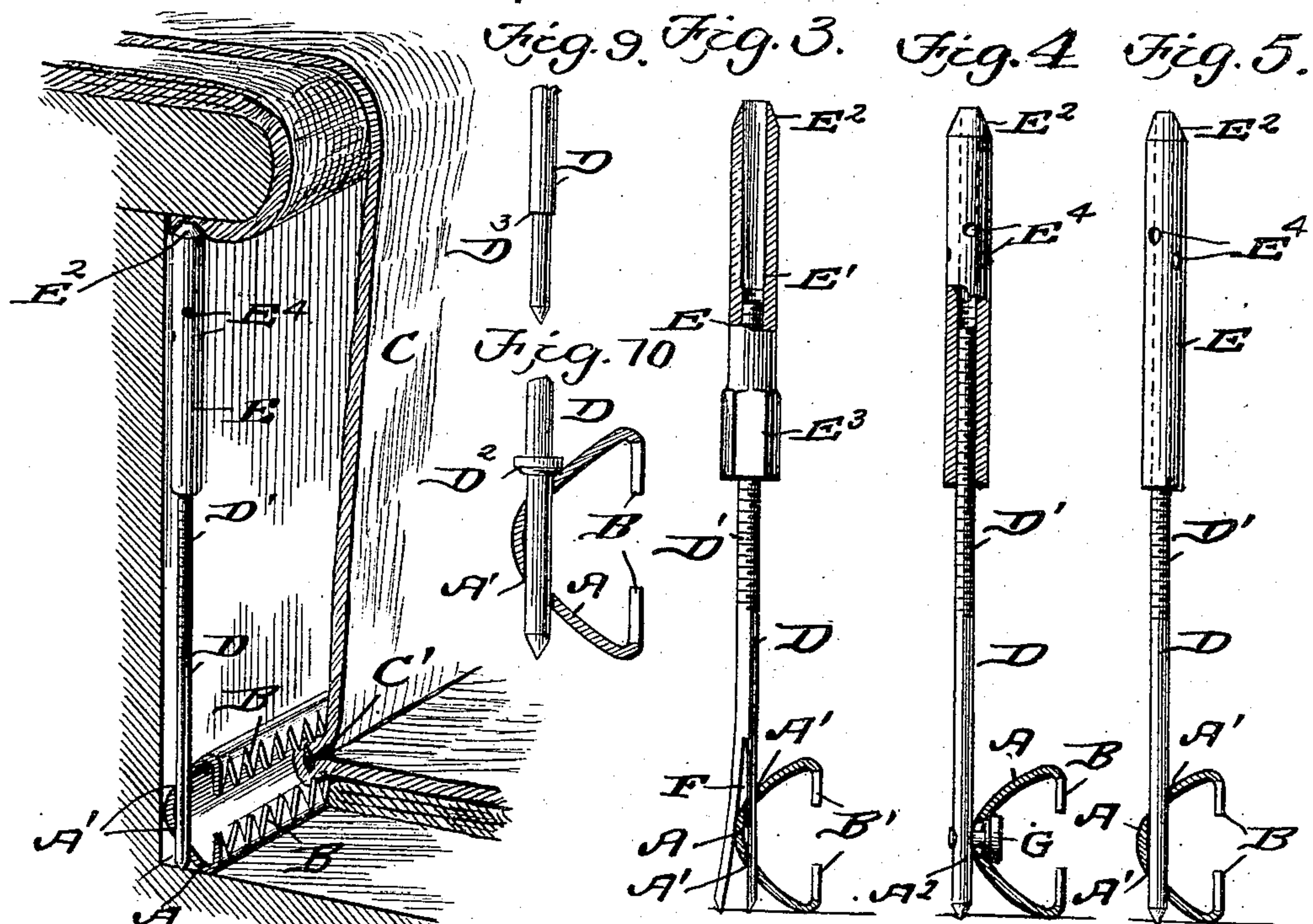
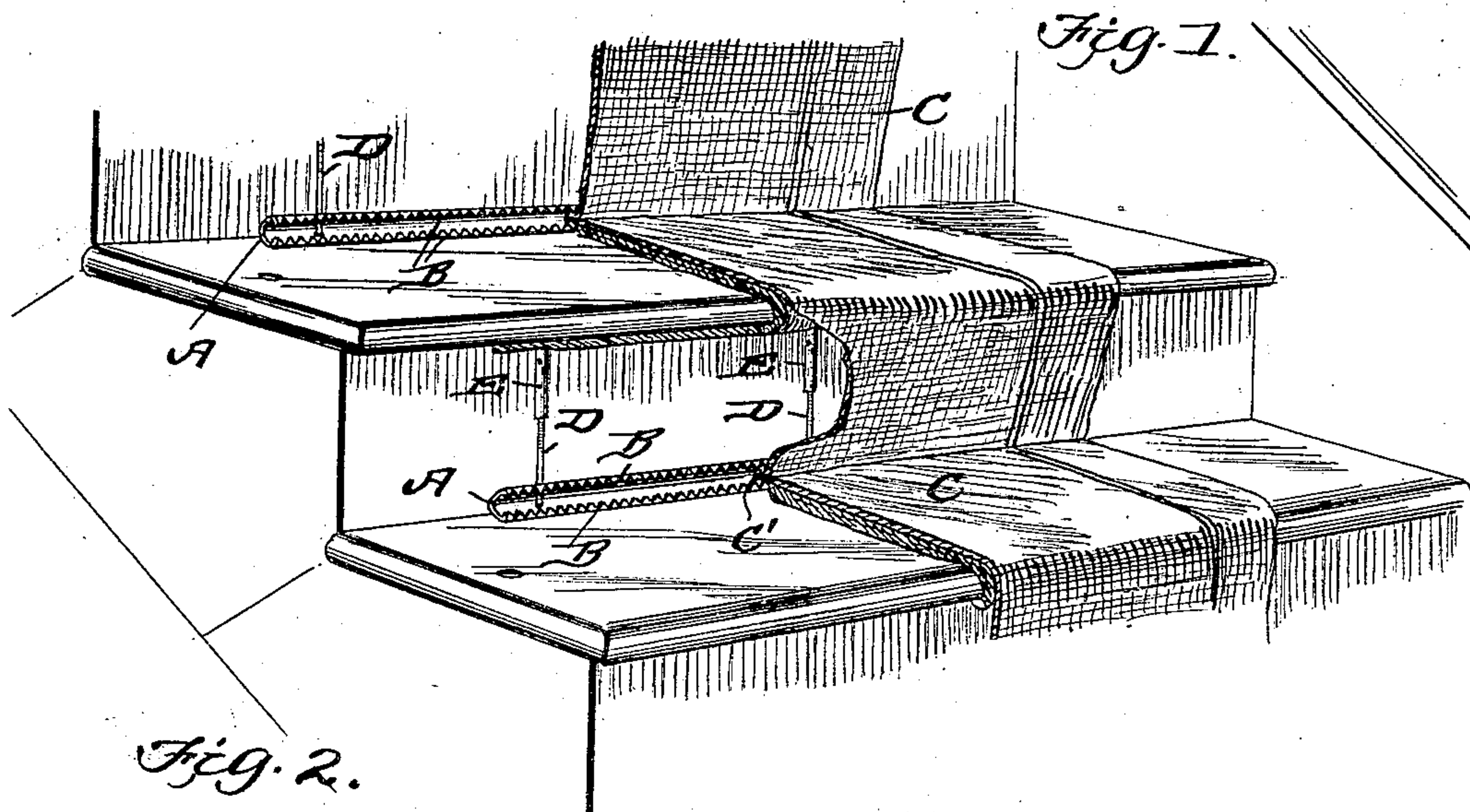


No. 841,417.

PATENTED JAN. 15, 1907.

J. D. MILLER.
STAIR CARPET FASTENER.
APPLICATION FILED AUG. 10, 1904.



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JEFFERSON DAVIS MILLER, OF NEW YORK, N. Y.

STAIR-CARPET FASTENER.

No. 841,417.

Specification of Letters Patent.

Patented Jan. 15, 1907.

Application filed August 10, 1904. Serial No. 220,246.

To all whom it may concern:

Be it known that I, JEFFERSON DAVIS MILLER, a citizen of the United States, residing at New York, in the borough of Manhattan and State of New York, have invented a new and useful Stair-Carpet Fastener, of which the following is a specification.

This invention relates generally to stair-carpet fasteners, and more particularly to a stair-carpet fastener which can be attached to the stairs without the use of screws or nails, thereby rendering the device capable of use upon wooden, stone, or metallic stairs.

Another object of the invention is to provide a device of this kind which can be quickly and easily attached to the stairs and the carpet afterward connected thereto; and a still further object is to provide a device which will be concealed by the carpet when said carpet is attached thereto, and it will of course be understood that when the carpet is attached to the fastener it is securely fastened to the stairs.

With these objects in view my invention consists, essentially, in the employment of a toothed bar having a rod connected thereto, said rod having a sleeve adjustable thereon, whereby the toothed rod is secured in the angle of the stair by binding the rod and sleeve between the tread of the step and the nosing of the step above.

The invention consists also in certain details of construction hereinafter fully described, and pointed out in the claims.

In the drawings forming a part of this specification, Figure 1 is a perspective view showing the practical application of my invention. Fig. 2 is an enlarged perspective view, partly in section and showing the mode of operation. Figs. 3, 4, and 5 are views showing the different methods of connecting a rod to the toothed bar. Figs. 6 and 7 are detail views of the apertured portion of the bar, and Fig. 8 is a detail of the rod shown in Fig. 4. Figs. 9 and 10 show modifications in detail.

In the practical embodiment of my invention I employ a metallic bar A, angular in cross-section, the opposite edges of said bar being provided with teeth B, which are turned inwardly or toward each other, as shown. This toothed bar is arranged and secured in the angle of the stair, and the carpet C is secured thereto by folding the carpet and forcing the fold C' in between the oppositely-disposed teeth B of the bar A. For

the purpose of securing this toothed bar in the angle of the stairs I employ a rod D, which is connected to the bar and is adapted to bear at one end upon the tread of the stair. The opposite end of the rod is threaded, as shown at D', and arranged upon this end is a sleeve E, the end E' being threaded, while the end E² is preferably pointed and is adapted to engage the nosing of the step above, this sleeve being adjusted upon the rod to bind the rod and sleeve tightly between the nose and tread, and the sleeve can be made with a polygonal surface E³ to receive a wrench or it can be provided with holes E⁴ to receive a turning-pin. (Not shown.) With this idea in view I provide the back portion of the bar with apertures A', through which the lower end of the rod is passed, and in Fig. 3 it will be noted that the end of a rod is bifurcated, as shown at F, said bifurcated end straddling the intervening strip of metal between the apertures and holding the rod against turning and the bar against upward movement.

In Fig. 4 I have shown an elongated button G, attached to the rod, which button is adapted to be passed through an elongated opening A², produced in the bar A, the button G being inserted and then given a quarter-turn to lock it in the opening A².

In operation the rods with the threaded sleeves arranged thereon are connected to the toothed bars and the said sleeve adjusted upon said rod, so that the combined rod and sleeve will fit easily between the tread and nosing, and then by turning the threaded sleeve in the proper direction the entire device is tightly bound between the tread of the step and the nosing of the step above, and it is immaterial whether stair-pads are used or not. It will also be understood that this device can be arranged upon stone steps equally as well as upon wooden steps, inasmuch as the ends of the rod and sleeve will bite into the stone a sufficient distance to hold the device, but not sufficiently deep to disfigure the stone steps. The device can also be quickly and easily arranged upon metal steps, and it is only necessary to produce a slight indentation in the metal step by means of a cold-chisel to provide a suitable resting-plate for the lower end of the rod. After the device has been securely fastened, as shown and described, the carpet is quickly connected thereto by folding the said carpet at the proper point and forcing said fold into the

toothed bar A, the teeth engaging the under surface of the carpet and securely holding the said carpet.

5 In Figs. 9 and 10 I have shown two slightly-modified forms of holding down the toothed bar, the rod D having a collar D² in Fig. 10 and a shoulder D³ in Fig. 9, which collar and shoulder bear upon the bar and hold it down.

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

1. A stair-carpet fastener comprising a bar angular in cross-section provided with oppositely-disposed teeth, a rod detachably connected to said bar, and threaded at one end and a sleeve adjustably arranged upon said threaded end.

2. A stair-carpet fastener comprising a bar

angular in cross-section and having oppositely-disposed teeth, said bar being apertured, a rod adapted to engage the apertured portion of the bar, the opposite end of said rod being threaded and a sleeve adjustably arranged upon said threaded end.

3. A stair-carpet fastener comprising a bar angular in cross-section having oppositely-disposed teeth, said bar being apertured, a rod having one end shaped to pass through the apertured portion of the bar and bearing thereon, the opposite end of the rod being threaded and a sleeve adjustably arranged upon the threaded end of the rod as set forth.

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Witnesses:

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