

W. RICHARDS.
STAIR ROD FASTENER.

(Application filed Aug. 24, 1901.)

(No Model.)

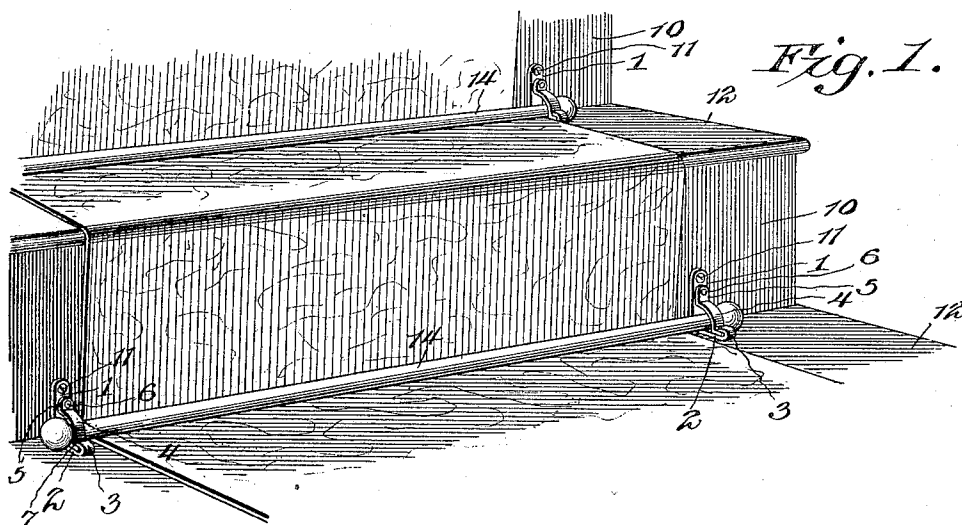


Fig. 5.

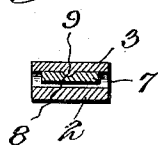
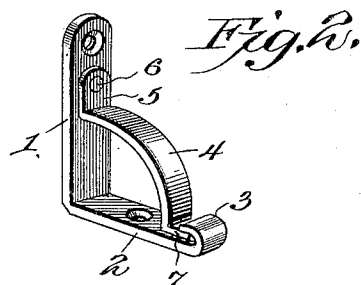
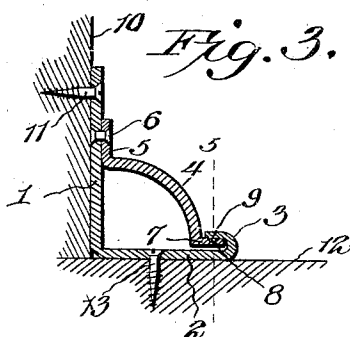
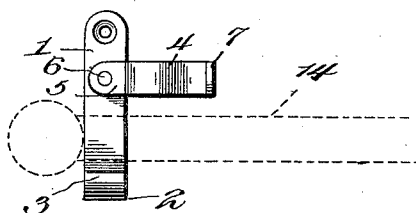


Fig. 4.



William Richards, Inventor:

By

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Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM RICHARDS, OF CALUMET, MICHIGAN.

STAIR-ROD FASTENER.

SPECIFICATION forming part of Letters Patent No. 701,394, dated June 3, 1902.

Application filed August 24, 1901. Serial No. 73,191. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM RICHARDS, a subject of the King of Great Britain, residing at Calumet, in the county of Houghton and State of Michigan, have invented a new and useful Stair-Rod Fastener, of which the following is a specification.

This invention relates to stair-rod fasteners, and has for its object to provide an improved device of this character which is arranged for permanent application to stairs and also adapted for the convenient reception of one end of a stair-rod, so as to rigidly hold the latter in place, and also arranged to facilitate the removal of the rod without detaching the entire device from the stairs. It is furthermore designed to provide a simple, inexpensive, and durable fastening device which may be conveniently secured in place without the employment of skilled labor, and when applied to stairs forms an ornamental and attractive device and does not interfere in any manner with the usual traffic upon the stairs.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a perspective view illustrating a stair-rod held in place by means of a pair of fasteners constructed in accordance with the present invention. Fig. 2 is a detail perspective view of a stair-rod fastener embodying the present invention. Fig. 3 is a longitudinal sectional view thereof. Fig. 4 is a front elevation showing the fastener adjusted for the reception and removal of a stair-rod. Fig. 5 is a detail sectional view taken on the line 5 5 of Fig. 3.

Like characters of reference designate corresponding parts in all the figures of the drawings.

As embodied in the accompanying drawings the present device consists of a relatively fixed bracket member having the angularly-

related arms 1 and 2, which are preferably disposed at right angles and formed integrally. The upright arm 1 is designed to be secured to the riser of a flight of steps and is provided with an outer terminal opening for the reception of a suitable fastener—as, for instance, a screw—while the opposite substantially horizontal arm is provided with an intermediate opening, also designed for the reception of a fastener, whereby the arm 2 may be secured to a tread. The outer end of the arm 2 is provided with an inwardly-directed overhanging flange 3, which is designed to form a keeper, as will hereinafter be described.

The movable or adjustable member of the fastening is formed by a bowed strap 4, that normally lies between the arms of the bracket member and has its upper end provided with an upwardly-directed ear 5, which is pivotally connected to the bracket-arm 1, as indicated at 6, while the opposite lower end of the strap member is provided with an outwardly-directed foot portion 7, that is normally disposed slightly above the bracket-arm 2 and is adapted to be sprung beneath the overhanging flange or keeper 3 to prevent upward displacement of the lower free end of the strap or clip member 4.

As best illustrated in Fig. 3 of the drawings, it will be seen that the upper side of the foot portion 7 is provided with a socket or depression 8, designed for the reception of a pendent projection 9 upon the under side of the keeper 3, so that said projection is designed to snap into the socket when the foot is swung laterally into the keeper, thereby to secure a locked engagement between the swinging clip and the keeper to prevent accidental lateral displacement of the clip.

In the application of the device as indicated in Figs. 1 and 3 of the drawings it will be seen that the bracket-arm 1 fits snugly against a riser 10 and is secured thereto by means of a fastening 11, set through the opening in the arm and into the said riser, while the other arm 2 rests upon the tread portion 12 and is secured thereto by means of the fastener 13, whereby the angular shape of the bracket permits of the latter fitting snugly the angle formed between the tread and riser portions of the stairs. The clip member 4 is

swung laterally upon its pivotal connection with the bracket, so as to permit of the stair-rod 14 being placed laterally across the lower arm of the bracket and in rear of the keeper 5 3, after which the clip is swung downwardly, so that the foot portion 7 may be engaged with the keeper, as hereinbefore described, whereby the clip embraces or arches over the top of the rod and fits the same snugly, so as to 10 hold it against accidental displacement from the bracket. It will be understood that the rod may be readily removed from the bracket by a reversal of the operation just described, from which it will be understood that the 15 bracket is designed to remain permanently upon the stairs. It is also obvious that the bracket takes up but very little room and also forms an attractive and ornamental device which is comparatively simple and does 20 not interfere with the passage of feet up and down the stairs.

What I claim is—

A stair-rod fastener, consisting of an attaching bracket member having angularly-related arms, the outer end of one arm being 25 provided with an overhanging terminal keeper, which is provided with a pendent projection, and a swinging clip member having one end pivotally connected to the other bracket-arm, and its opposite free end con- 30 structed to lie within the keeper and provided in its upper face with a socket or depression for the reception of the pendent projection of the keeper.

In testimony that I claim the foregoing as 35 my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM RICHARDS.

Witnesses:

JHAN WALTZ,
GEO. S. MAHONEY.