

No. 744,639.

PATENTED NOV. 17, 1903.

J. P. STAHL.
STAIR ROD FASTENING.
APPLICATION FILED FEB. 9, 1903.

NO MODEL.

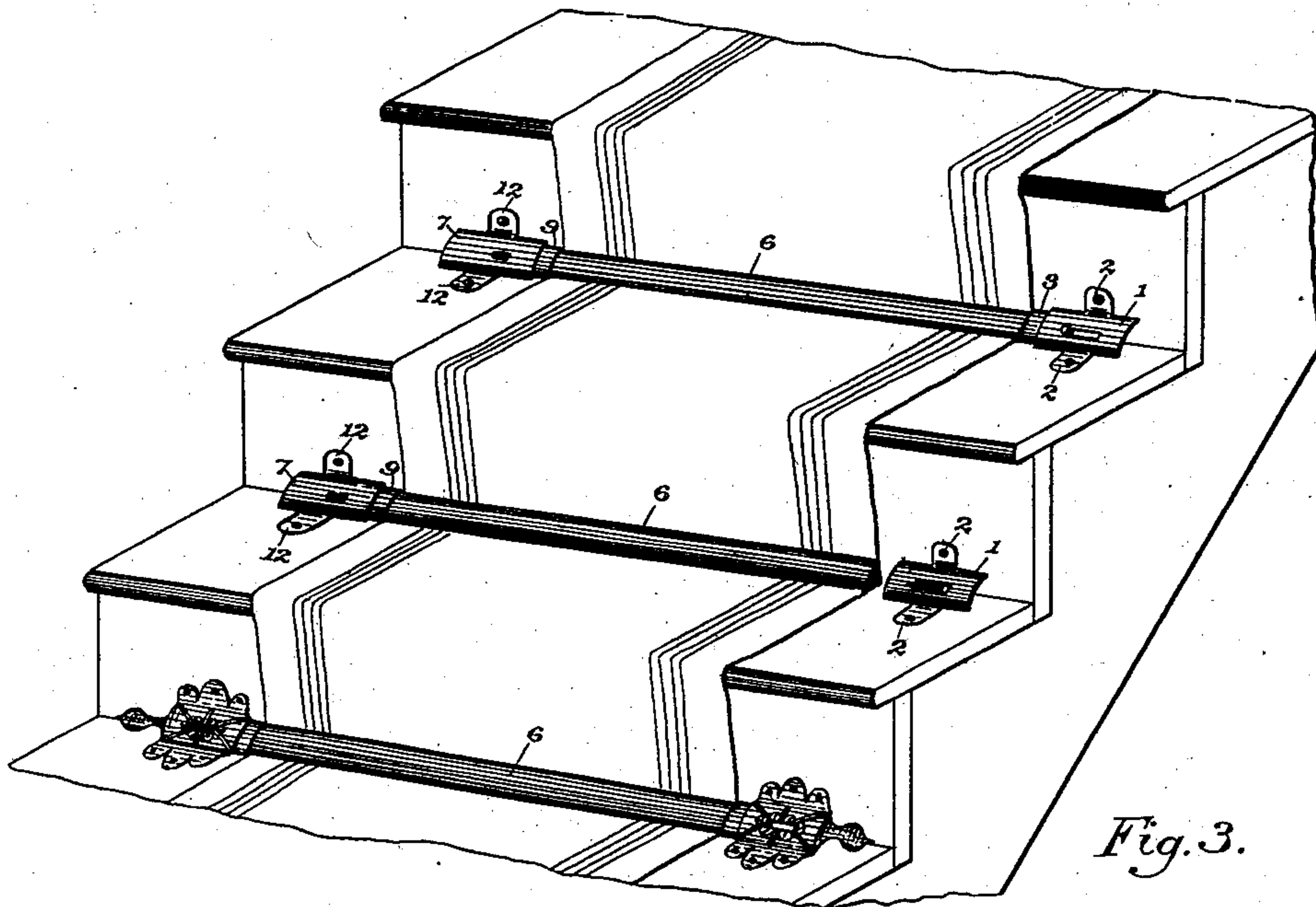


Fig. 3.

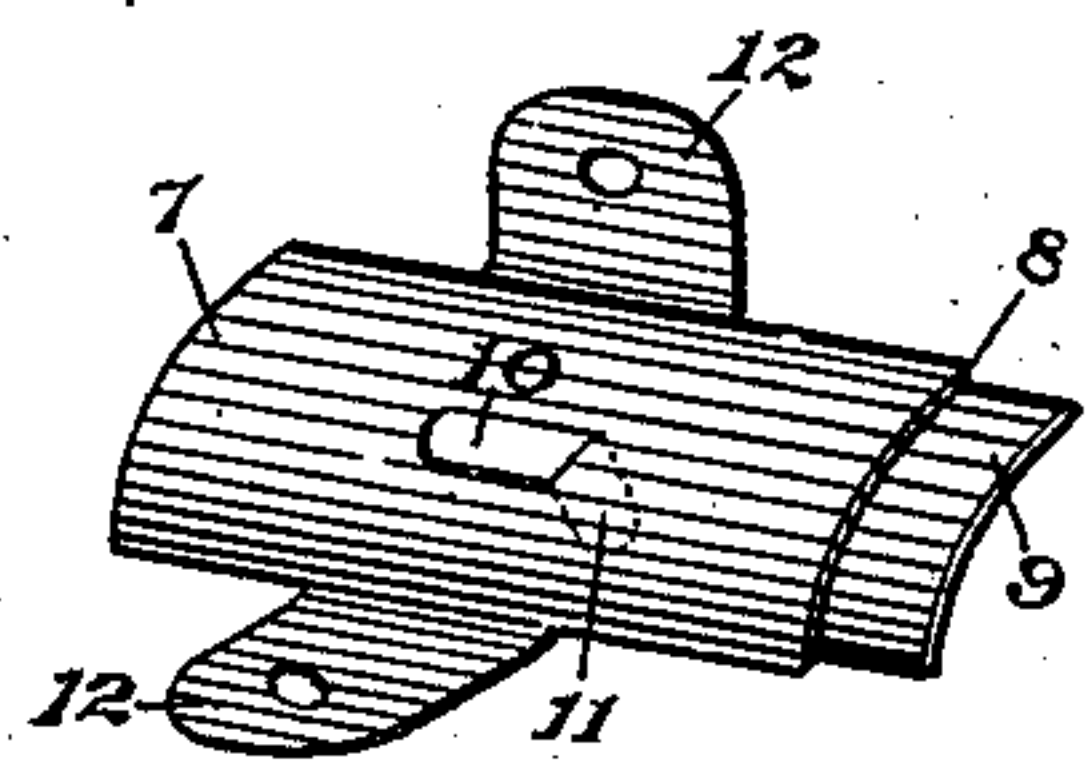


Fig. 2.

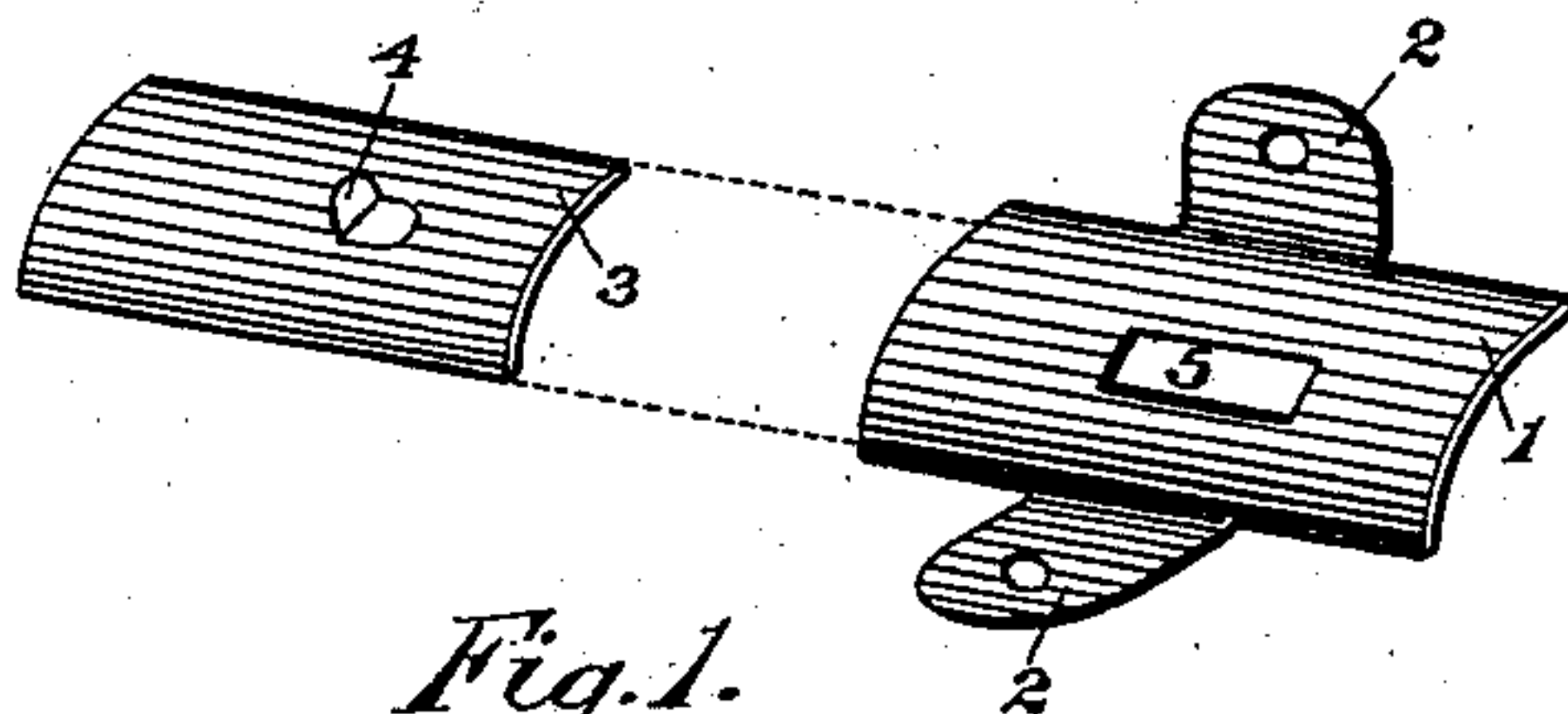


Fig. 1.

Witnesses

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JOHN P. STAHL, OF JOHNSTOWN, PENNSYLVANIA, ASSIGNOR OF ONE-HALF
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STAIR-ROD FASTENING.

SPECIFICATION forming part of Letters Patent No. 744,639, dated November 17, 1903.

Application filed February 9, 1903. Serial No. 142,546; (No model.)

To all whom it may concern:

Be it known that I, JOHN P. STAHL, a citizen of the United States, residing at Johnstown, in the county of Cambria and State of Pennsylvania, have invented certain new and useful Improvements in Stair-Rods and Fastenings Therefor; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to adjustable stair-rods, and has for its object to provide a device of the character described which will insure convenience of application and removal, cheapness, and durability, which will hold a carpet securely and evenly, and can be applied to stone, metal, or wooden steps with equal facility and effectiveness.

Another object is to provide a device of the class described in which the stair-rod is made in the simplest possible manner, either from wood or metal, and the fastenings therefor struck from sheet metal between dies, a process well known as the most economical way of producing metal articles.

To accomplish the desired end, my invention consists of the construction and arrangement shown in the drawings and described hereinafter.

In order to make the matter more clear, I will refer to the said drawings, which form a part of this specification, and in which like figures designate like parts.

Figures 1 and 2 are detail perspective views of improved stair-rod fastenings which embody my invention. Fig. 3 is a perspective view of a few steps, showing my improved stair-rod and fastenings in position.

For convenience of description I will refer hereinafter to the parts shown in Fig. 1 as the "adjustable" fastening and the part shown in Fig. 2 as the "stationary" fastening.

Referring now to Fig. 1 in more detail, 1 is a part of the adjustable fastening of substantially rectangular outline, provided with wings 2, which serve to secure the device in place, said part 1 being a quarter-round in cross-section and said wings 2 being at such an angle with each other that the fastening

may fit properly and closely in the angle between the step-board and the riser of the stair, the whole being secured in position by screws or similar fastenings. 3 is another part of the adjustable fastening, also of substantially rectangular outline, likewise shaped to form a quarter-round and adapted to fit and slide within part 1 aforementioned. Said part 3 is provided with an ear 4, projecting outwardly therefrom and intended to protrude through a slot 5 in part 1, said ear 4 serving as means for adjusting the slide 3 in operative position over the stair-rod 6, as shown in Fig. 3, while the adjacent surfaces of the step-board and riser of the stair hold said slide 3 in place.

Although the adjustable fastening shown in Fig. 1 and above described may be used at both ends of the stair-rod, I prefer to use a stationary fastening, such as shown in Fig. 2, at one end of the rod in order to reduce the cost of the device. The said stationary fastening is composed of a part 7 of substantially rectangular outline shaped to form a quarter-round and arranged with a shoulder 8, forming a depressed portion 9 in imitation to the appearance of the adjustable fastening when the same is in operative position. Said part 7 is further provided with a slot 10, forming an ear 11, which projects inwardly and serves as a stop for the stair-rod. 12 are wings which serve to secure the stationary fastening in place and make such an angle with each other that the device may fit properly and closely in the angle of the stair.

My improved fastenings can be made of any suitable material, of which sheet metal possesses the advantage that it can be readily pressed and shaped to the required form in dies in one single operation, and this is a valuable feature of my invention.

The stair-rod is likewise formed of any suitable material, preferably wood of ordinary quarter-round section appropriately smoothed and polished. This requires no other work except sawing it to the proper length, and besides being a very cheap commercial article presents other advantages in that it allows of being fitted closely into the angle of the steps, and thereby firmly secures the carpet in position. However, the stair-rod may be formed of pressed sheet metal, or it may be formed of

round or other section when desired, without altering the shape of the fastenings, or, again, the fastenings may be arranged to fit the cross-section of the rod. These various alterations can be made without decreasing the efficiency of the device or increasing the cost of manufacturing it.

Referring to Fig. 3, the device is placed in position in the following manner: The stair-carpet being loosely in place, the fastenings are secured to the steps on each side of said carpet by means of screws or otherwise, the stationary fastening preferably to the left and the adjustable fastening, after inserting slide 3, to the right. The stair-rod having been previously cut to the required length is placed within the angle of the step and riser, one end of said rod being introduced under part 9 of the stationary fastening and pushed to the left until it abuts against the ear or stop 11 therein. The rod is then pressed against the carpet and the slide 3 pushed over the other end, holding the rod and carpet securely in position.

It is manifest that many minor changes in the details and proportions within the scope of my invention might be made, if found desirable and necessary.

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

1. In stair-rods and fastenings therefor, the combination with a stair-rod, of a fastening composed of a shell provided with a slot, wings for securing said shell to the stairway, a sleeve adapted to slide within said shell having an outwardly-projecting ear protrud-

ing through said slot when said sleeve is in operative position.

2. In stair-rods and fastenings therefor, the combination with a stair-rod, of an adjustable fastening at one end of said rod composed of a shell provided with a slot, wings for securing said shell to the stairway, a sleeve adapted to slide within said shell having an outwardly-projecting ear protruding through said slot when said sleeve is in operative position, a stationary fastening at the other end of said rod composed of a shell provided with an inwardly-projecting ear, wings for securing said shell to the stairway.

3. In stair-rods and fastenings therefor, the combination with a stair-rod, of an adjustable fastening at one end of said rod composed of a shell provided with a slot, wings for securing said shell to the stairway, a sleeve adapted to slide within said shell and over the end of the stair-rod, said sleeve having an outwardly-projecting ear protruding through the slot aforementioned when the said sleeve is in operative position, a stationary fastening at the other end of the stair-rod composed of a shell provided with an inwardly-projecting ear adapted to serve as stop for said rod, wings for securing said shell to the stairway, a depressed portion projecting from said shell over said stair-rod end similarly to the sleeve aforesaid.

In testimony whereof I hereto affix my signature in the presence of two witnesses.

JOHN P. STAHL.

Witnesses:

J. R. WEMLINGER,
D. P. WEIMER.