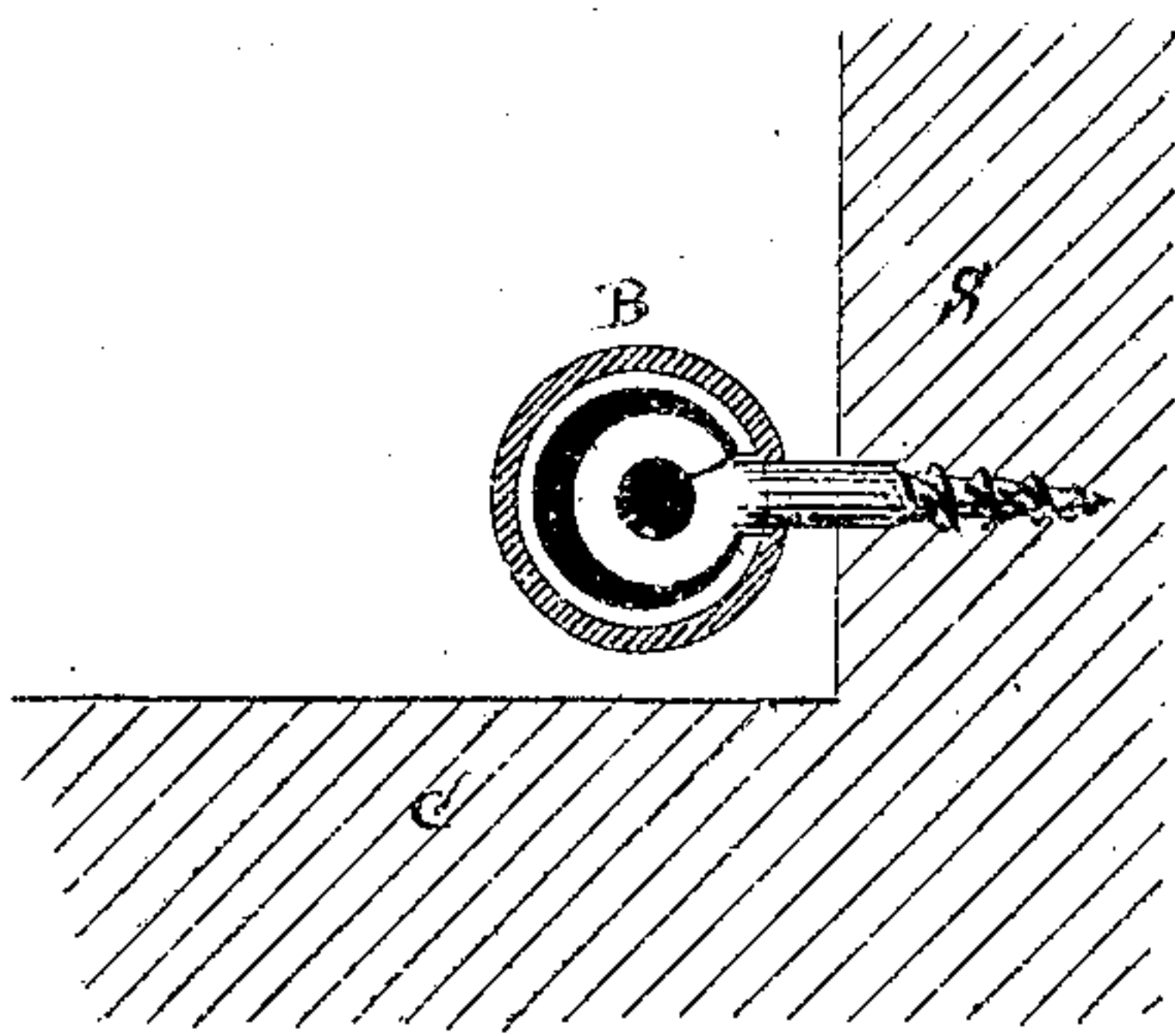
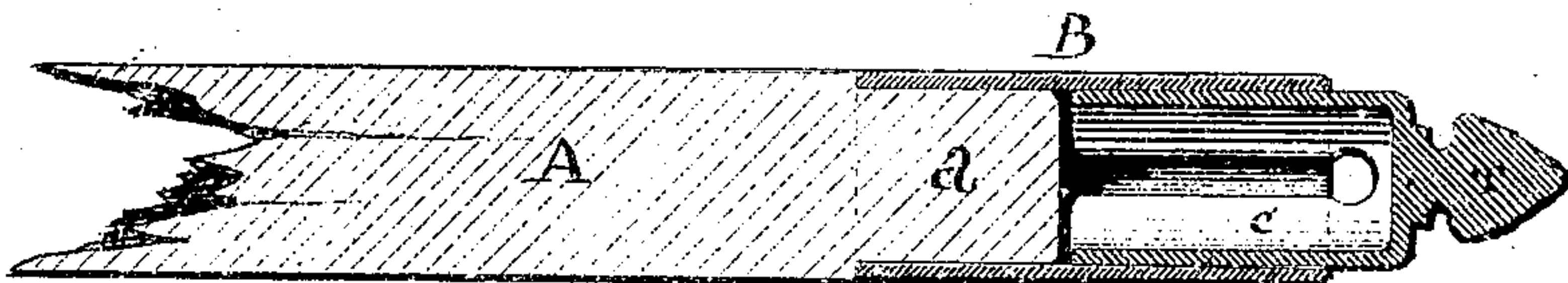
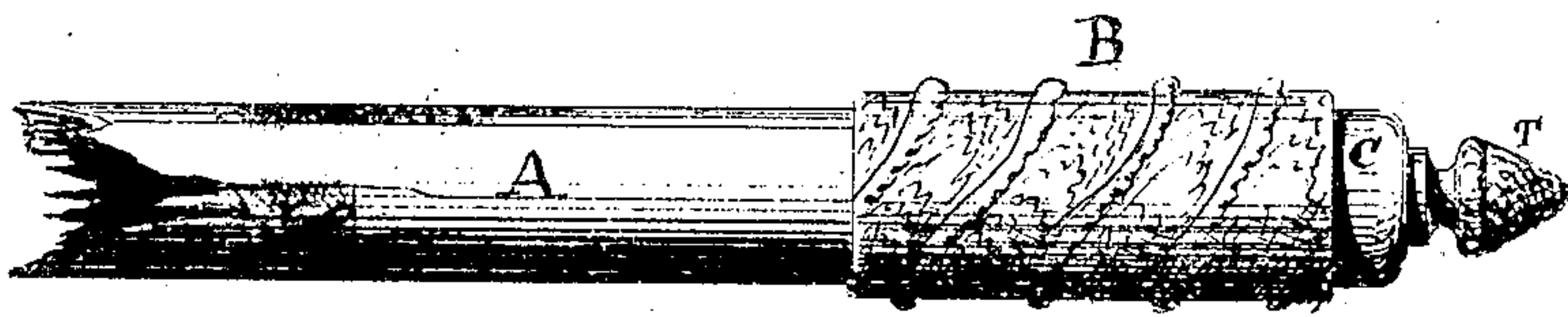


*H. Utry,*

*Stair Rod.*

*No. 101063.*

*Patented Mar. 22. 1870.*



*Witnesses.*

*H. Germaine Hubert,*  
*Edw. Bell*

*Inventor.*

*H. Utry*

# United States Patent Office.

H. UHRY, OF NEW YORK, N. Y., ASSIGNOR TO THE AMERICAN STAIR-ROD COMPANY, OF SAME PLACE.

Letters Patent No. 101,063, dated March 22, 1870.

## IMPROVEMENT IN STAIR-RODS.

The Schedule referred to in these Letters Patent and making part of the same.

I, H. UHRY, of the city of New York, in the county and State of New York, have invented certain Improvements in Stair-Rods, of which the following is a specification.

### *Nature and Objects of the Invention.*

This invention relates to an improved mode of fastening solid stair-rods; and

It consists in providing the ends of said rods with muffs or sleeves, and in combination therewith of a slotted cap-fastening and screw-eye, substantially as described below.

### *Description of Drawing.*

Figure 1 represents the end of a rod with my improved fastening attached, seen from the front.

Figure 2 is a sectional view of the same from the same point of view, the front half removed.

Figure 3 is a sectional view of the shell or inside slipping end piece, and of the riser and tread of a staircase, showing the screw-eye fastened to the riser.

### *General Description.*

A is the stair-rod, which may be made of any material or shape, but has to have a round part, *a*, at each end, to fit snug and tight into the sleeve or muff B, in which it is to be permanently fastened.

B is a sleeve or cylindrical muff, driven hard over the round part or tenoned end of the rod A.

With solid rods, or rods of other dimensions and shape, the muff is driven over the ends, leaving part of said muff B to project at each end, to form cylindrical cavities, as indicated in the drawings.

C is a slotted cylindrical shell or end piece, fitting snugly inside of the cylindrical cavity of the muff B, and having a head, T, both for the sake of ornament, and to handle it conveniently.

*e* is a screw-eye, which is screwed into the riser S of the stair-case.

### *Operation.*

The screw-eyes *e* are to be screwed at the proper place on the stair-riser, at distances to allow of the rod with its muff ends to enter between the two screw-eyes. The rod is placed between the two screw-eyes, and the slotted end pieces are slipped over the eyes, and inside of the cavity of the muffs B, and the whole has the appearance of fig. 1 on my drawings.

### *Remarks.*

At first sight this fastening may appear to be the same as the one which I have already described in one of my previous patents, but it is not so. In my previous fastening I employ a slotted cylindrical shell, it is true, but it is slipped over the end of the rod, which may be found objectionable in some cases.

The screw-eye, when the strain of the carpet comes upon it, may have a tendency to open the slotted piece by spreading it apart. It may make it looser upon the rod, and it obliges, in case of removing the rod often, to have the wood and metal joint of the rod and slotted shell looser than is good for such a purpose. My placing the slotted shell inside of a metallic muff instead of outside of a wooden tenoned end, makes a much more substantial fastening.

### *Claim.*

The combination of the solid stair-rod A, the muff B, slotted piece C, and screw-eye *e*, substantially in the manner and for the purpose set forth.

H. UHRY. [L. S.]

Witnesses:

H. GENGEMBRE HUBERT,  
JONA. BELL.