

J. Stuehler.

Stair Rod Fastening.

N^o 97,132.

Patented Nov. 23, 1869.

Fig. 1.

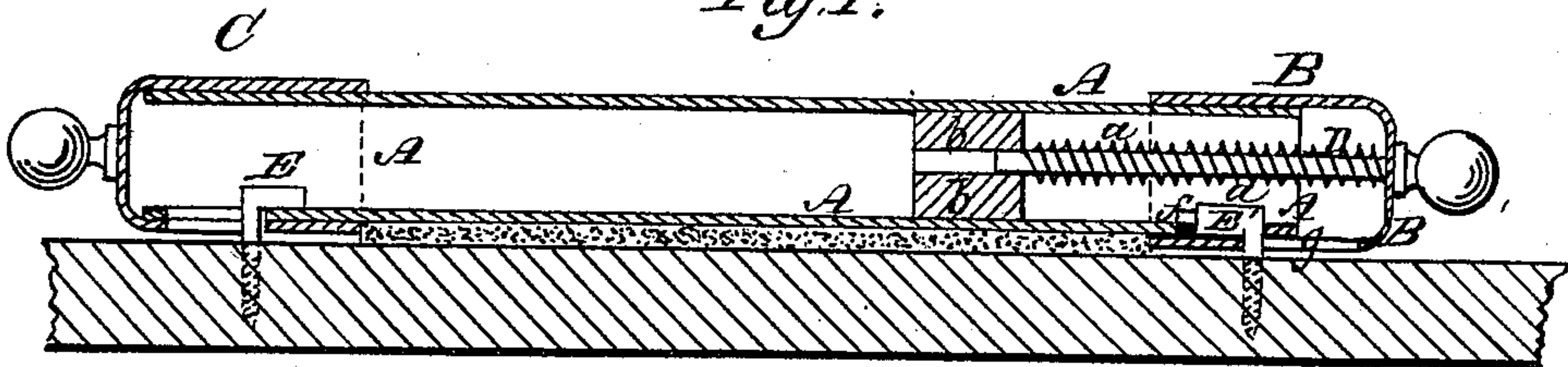
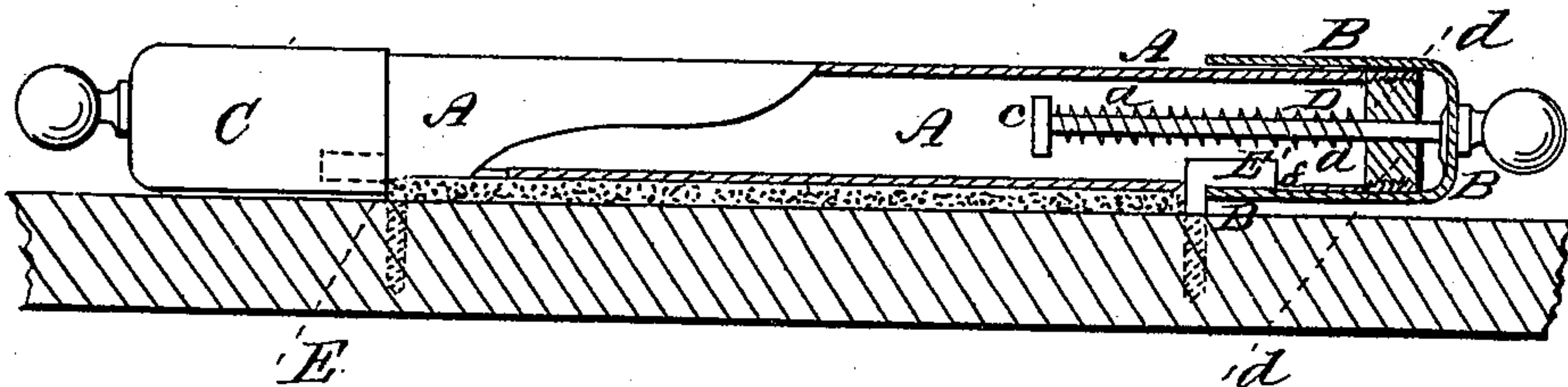


Fig. 2.



Witnesses.
Alex J. Roberts
Frank Blockley -

Inventor.
J. Stuehler
Munn & Co.
Attys.

United States Patent Office.

JOSEF STUEHLER, OF BROOKLYN, NEW YORK.

Letters Patent No. 97,132, dated November 23, 1869.

IMPROVED STAIR-ROD.

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

To all whom it may concern:

Be it known that I, JOSEF STUEHLER, of Brooklyn, in the county of Kings, and State of New York, have invented a new and improved Stair-Rod Fastener; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figures 1 and 2 are longitudinal sections of my improved stair-rod fastener, showing two modifications of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new stair-rod fastener, which is so constructed that the rod can be readily applied and removed, and securely retained in proper position.

The invention consists in forming a sliding spring-cap on one end of a hollow rod, the said cap serving to lock the rod to a pair of hooks, or their equivalents, which are fastened in the stairs; thereby a simple and cheap rod and reliable fastening are produced.

A, in the drawing, represents a tubular or prismatic hollow stair-rod, made of suitable material and length.

At one end it has a sliding cap, B, and at the other, a similar imitation cap, C, the latter being fixed to or formed on the rod.

The sliding cap C carries on its inside a longitudinal stem, D, which projects into the rod, and which receives a spiral spring, *a*, around it, as shown.

The spring *a* is either fitted between the end of the cap and a cross-piece in the rod, as in fig. 1, so that it has the tendency to push the cap B out, or it is, as in fig. 2, fitted between a shoulder, *c*, on the inner end of the stem D, and a perforated plate, *d*, that closes the end of the hollow rod A, as shown, so that thereby said spring has the tendency to draw the said cap in.

The rod has one slot or aperture, *f*, where it is covered by the cap B, and even the latter must, when applied as in fig. 1, have a slot, *g*.

The rod is to be fastened to two hooks, screws, pins, or equivalent devices, E E', which are fastened to the stairs. The hook E fits through a slot in the rod, at or near the cap C, and then the rod is moved to bring the non-slotted part under the hook.

The slots *f* and *g*, fig. 1, are then, by pushing the cap B in, brought in line, which will allow the rod to be fitted over the hook E'. The spring will then push the cap B out, and will lock it under the hook E, as in fig. 1.

The rod can be taken off, when the cap B is again pushed in, to bring the slots *f* and *g* in line. It is evident, that in this case, the hooks must point inward with their bills, because the spring draws the cap outward to lock it. In the case shown in fig. 2, the hooks point outward, because the spring draws the cap inward to lock it. In fig. 2, the cap is represented without a slot, it being locked under the hook with its inner edge.

The rod is unlocked by drawing the cap entirely away from under the hook. The stem may, by using large or other-shaped springs, be dispensed with.

I am aware that spring-bearings, in hollow tips, and attached by brackets to the stair, have been used before, but these I have no desire to claim as a part of my invention.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

A stair-rod, slotted near its ends, and provided with a slotted cap, B, pin D, spring *d*, and perforated block *b*, all constructed as described, to lock the said rod upon the hooks E, in the manner specified.

JOSEF STUEHLER.

Witnesses:

GEO. W. MABEE,
ALEX. F. ROBERTS.