

E. J. SMITH.

Improvement in Stair Rods.

No. 121,431.

Patented Nov. 28, 1871.

Fig. 1.

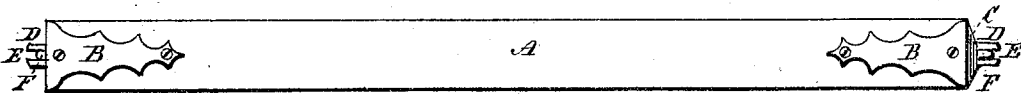


Fig. 2.

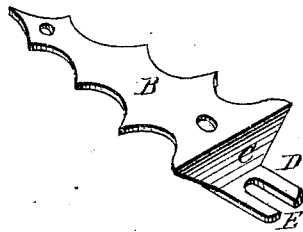
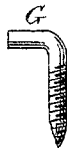


Fig. 3.



WITNESSES.

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ELDRIDGE J. SMITH, OF WASHINGTON, DISTRICT OF COLUMBIA.

IMPROVEMENT IN STAIR-RODS.

Specification forming part of Letters Patent No. 121,431, dated November 28, 1871.

To all whom it may concern:

Be it known that I, ELDRIDGE J. SMITH, of Washington city, county of Washington, District of Columbia, have invented certain Improvements in Stair-Rods, of which the following is a specification:

My invention relates to a triangular stair-rod of required length, composed of wood, at each end of which is fastened a piece of metal, the same being secured to the top, or that side forming the hypotenuse of the triangle, which serves as an ornament and to secure the rod to the stairs. This plate is formed with a shoulder which projects at right angles over the end of the rod so as to cover it, and at its lower end an arm projects outwardly at right angles. At the end of this arm a slot is formed, but not extending so far as to be flush with the shoulders. The standards which serve to secure the rod at each end are armed with a head or cap projecting at right angles. The invention consists in the peculiar-shaped plates fitting a triangular rod and secured by a turning screw-hook.

Figure 1 is a top view of my invention. Fig. 2 is a perspective view of the plate fitting over the top and ends of the rod. Fig. 3 is a standard with the cap or head projecting at right angles.

A is the triangular rod formed of wood, with the plates B B secured to each end; C, shoulder of the plate projecting over the end of the rod. An arm, D, extends at right angles and outwardly, and is provided with a slot, E, of size for the

standard F to fit in it. This standard has an arm projecting at right angles, forming an arm, G, in Fig. 3, which, screwed into the angles of the stair on each end and the rod adjusted to it, can be turned so the said arm G will point inwardly. The arm catches on the upper side of the plate between the inner edge of the slot and the shoulder C. It will then be seen that the standard may be secured at one side and need not be re-adjusted in fastening the rod, but the standard at the opposite side, by being turned so that the arm G will point outwardly, will allow the standard to slip into the slot; after which, by turning the same, will cause the arm G to point inwardly, as aforesaid, will secure the rod to its position in the angles of the stair. If desired, the slots E E may be dispensed with, as the rod, fitting snugly in the angles of the stair, will be held in its place without being held in position by the sides forming the slot.

The surface of the rod forming the hypotenuse of the triangle will admit of various ornamental designs of metal or other material to be secured.

I claim as my invention—

The triangular rod A provided with the shouldered arm D secured by the rotary screw-hook G, all arranged as described.

ELDRIDGE J. SMITH.

Witnesses:

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(241)