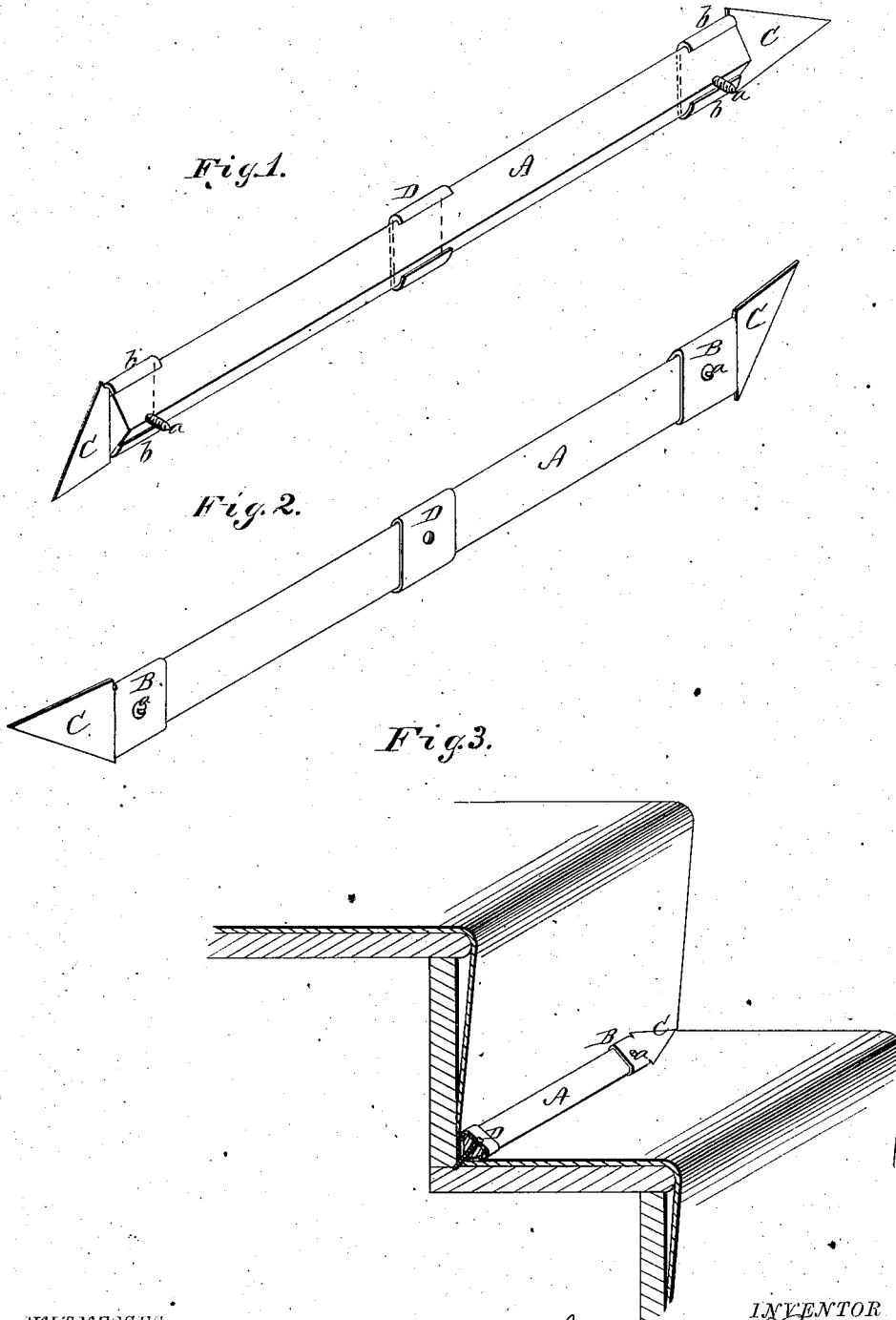


A. W. PORTER.  
Stair-Rod.

No. 162,416.

Patented April 20, 1875.



WITNESSES  
Frank L. Ourand  
L. L. Evers.

By

INVENTOR  
A. W. Porter  
Alexander M. Mason  
Attorney

# UNITED STATES PATENT OFFICE.

ANSELL W. PORTER, OF SYRACUSE, NEW YORK.

## IMPROVEMENT IN STAIR-RODS.

Specification forming part of Letters Patent No. **162,416**, dated April 20, 1875; application filed March 29, 1875.

*To all whom it may concern:*

Be it known that I, ANSELL W. PORTER, of Syracuse, in the county of Onondaga and in the State of New York, have invented certain new and useful Improvements in Stair-Rods; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the combination of a triangular rod having plates, with loops or flanges formed with V-shaped flaps or wings, and with or without one or more intermediate plates and attaching-screws, all as more fully hereinafter set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figures 1 and 2 are perspective views, showing the rear and front, respectively, of my stair-rod. Fig. 3 is a perspective section, showing the application of the stair-rods.

A represents a rod or bar of suitable length, the cross-section of which is a right-angled triangle, so as to fit in the angle between the steps of a stair-case. On each end of this rod or bar—which I prefer to make of some hard durable wood—is fastened a metal clasping-plate, B, by means of a screw, *a*, which passes through the center of the front side, and through the inner angle of the rod. The edges *b b* of the plate B are bent over the edges of the rod, forming lips or flanges, so as to hold

the plate firmly thereon and prevent the wood from splitting. At the outer end of the plate B is formed a V-shaped flap or wing, C, which extends in an inclined position, as shown in Fig. 3, and, when the rod is fastened, allows of sweeping at the ends of the rods without any dust collecting at these points. Where the rods or bars are left square at the ends it is impossible to prevent dust collecting; but, by the employment of these wings or flaps C, this is entirely obviated, as they form inclined surfaces, over which the broom can easily pass.

The rod is fastened for holding the stair-carpet by simply screwing in the screws *a a*, which is sufficient for narrow stairs. For wider stairs, one or more intermediate plates, D, are placed on the rod, and a screw passed through the center of each, through the rod and into the step.

The various plates may be made plain or ornamented in any suitable manner.

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

The combination of the triangular rod or bar A and the plates B B, having lips or or flanges *b b*, formed with the V-shaped flaps or wings C C, and with or without one or more intermediate plates, D, and the attaching-screws *a a*, all substantially as set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 28th day of March, 1875.

ANSELL W. PORTER.

Witnesses:

J. M. MASON,  
C. L. EVERT.