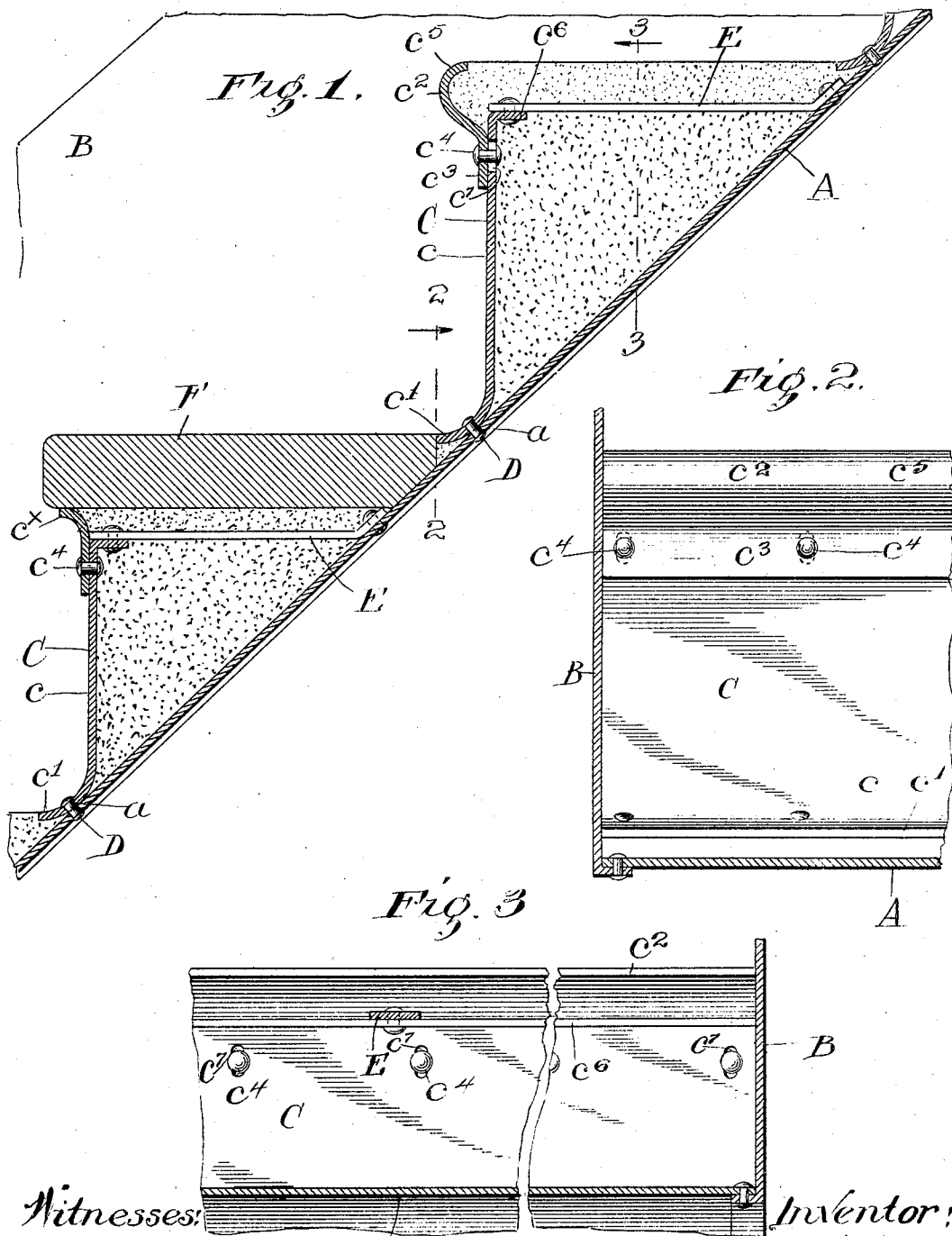


No. 792,743.

PATENTED JUNE 20, 1905.

F. A. WINSLOW.  
STAIRWAY.

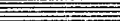
APPLICATION FILED AUG. 4, 1904.



Witnesses:

Chas. O. Shervey.  
F. M. O'Donnell

by

 Inventor:  
Francis A. Winslow,  
Atty.

# UNITED STATES PATENT OFFICE.

FRANCIS A. WINSLOW, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE  
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## STAIRWAY.

SPECIFICATION forming part of Letters Patent No. 792,743, dated June 20, 1905.

Application filed August 4, 1904. Serial No. 219,417.

*To all whom it may concern:*

Be it known that I, FRANCIS A. WINSLOW, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Stairways, of which the following is a specification.

My invention relates to certain improvements in stairways designed for the purpose of making a fireproof stairway of neat and substantial construction, the parts of which shall be such that they may be available throughout a considerable range of sizes.

To such end the invention consists in certain novel features of construction, which will be described in detail herein and the essential characteristics of which will be pointed out in the claim.

In the drawings, Figure 1 is a vertical longitudinal section of a portion of a stairway. Fig. 2 is a transverse section in the line 2 2 of Fig. 1 looking in the direction indicated by the arrow; and Fig. 3 is a section in the line 3 3 of Fig. 1 looking in the opposite direction, also indicated by the arrow. In said Fig. 3 the filling material is omitted in order to show the rear portion of the steel riser.

Referring to the figures, A is what is known as the "soffit," and B an outline representing one of the side plates of the stairway. In the preferred form of my invention I construct the stairway, as here indicated, with the soffit at the bottom of the side plates. This is not material, however, to the invention, as will be readily seen when the latter has been fully described. A series of risers C are provided made up of two portions, a front plate  $c$ , the lower edge of which is curved outward, as at  $c'$ , preferably until its upper surface becomes tangent to the top of the next step, and this curved portion is also preferably secured to the soffit, as at  $a$ , by means of rivets D, passed through the soffit and the curved portion of the risers at the point where the soffit is tangent to the latter. An upper portion  $c^2$  of the riser, forming what is ordinarily called

the "nosing," has a flange  $c^3$ , secured to the upper portion of the front plate by means of rivets  $c^4$ , and an ornamental curved portion  $c^5$ , covering the front edge of the step. Above the point where the nosing is attached the front plate  $c$  has a return-flange  $c^6$ , materially stiffening the same and also providing a means of attachment for a series of strips E, secured at their other ends to the soffit A. By the means thus described a substantial inclosure is provided in which cement, grouting, or other filling may be placed, which may extend to the upper surface of the step and form the tread or which may terminate short of that point and be covered by any suitable material to form the latter. In the lower step (shown in Fig. 1) the tread is shown at F, and the nosing  $c^x$  terminates at the under surface of the tread. This construction is adapted to steps of marble or other material, the front edge of which needs no protection.

The construction of the riser in two pieces secured together by suitable means enables the same to be used throughout a considerable range of sizes, determined, usually, by the pitch of the stairway. If desired, the plate C of the riser may be slotted, as at  $c^7$ , for the rivets  $c^4$ , so as to make the riser adjustable; but in ordinary practice it is sufficient to drill the rivet-holes for each particular job, the important fact being that the two parts of the riser may be kept in stock in large quantities and put together according to the different specifications. The variations in the heights of risers are very slight, so that front plates of a single width may be used throughout a considerable range of sizes.

I recognize the possibility of considerable variation in the particular form and construction of my invention without necessarily departing from the spirit thereof. Hence I do not limit said invention, except as is clearly set forth in the following claim.

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

In a stairway, the combination with a suit-

able framework and a series of steps, of risers  
for the latter composed of two longitudinal  
portions adapted to be secured together to  
produce risers of various heights, substan-  
5 tially as described.

In witness whereof I have signed the above  
application for Letters Patent, at Chicago, in

the county of Cook and State of Illinois, this  
28th day of July, A. D. 1904.

FRANCIS A. WINSLOW.

Witnesses:

PHILIP G. CARTER,  
CHARLES P. SAXE.