

No. 688,700.

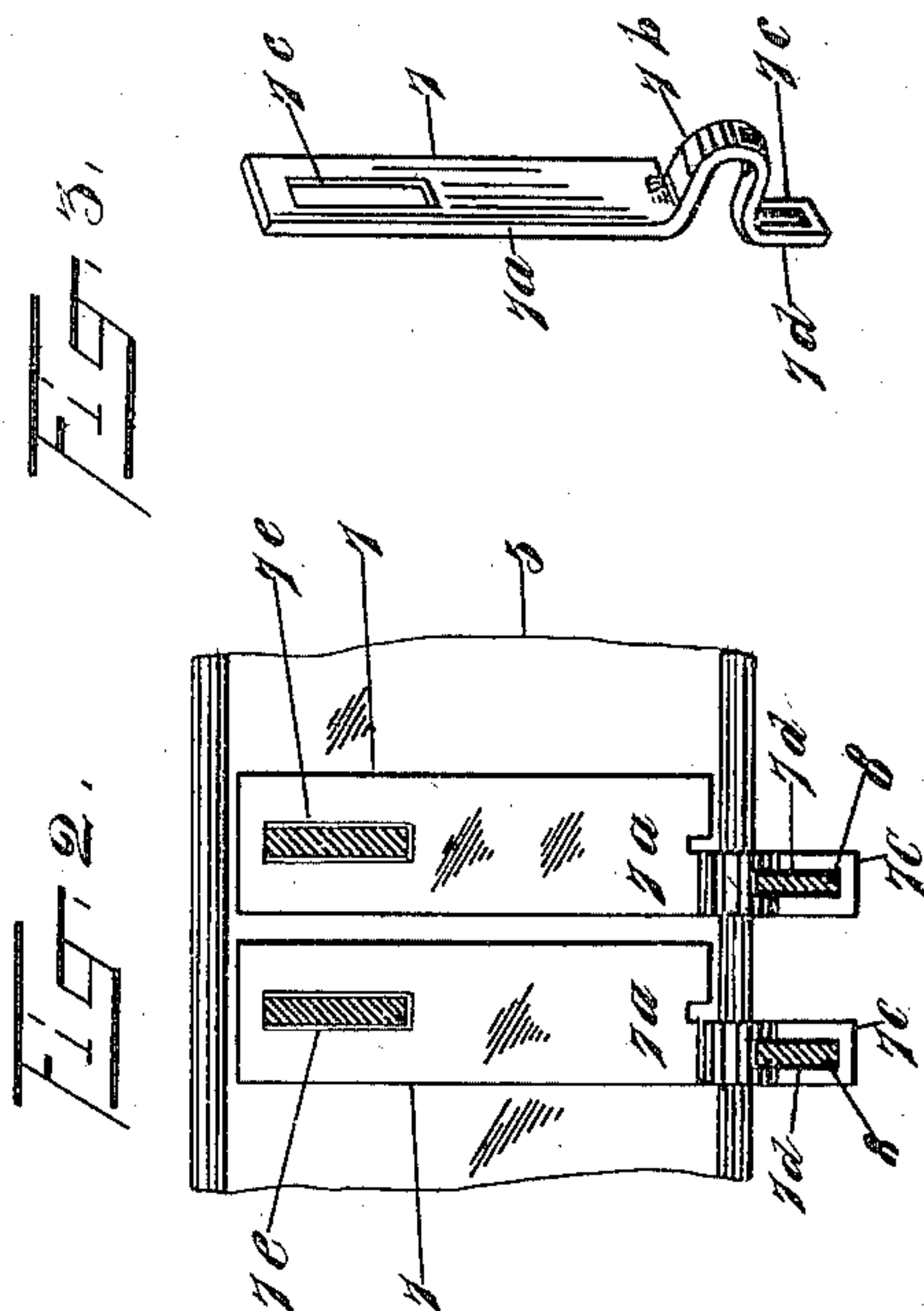
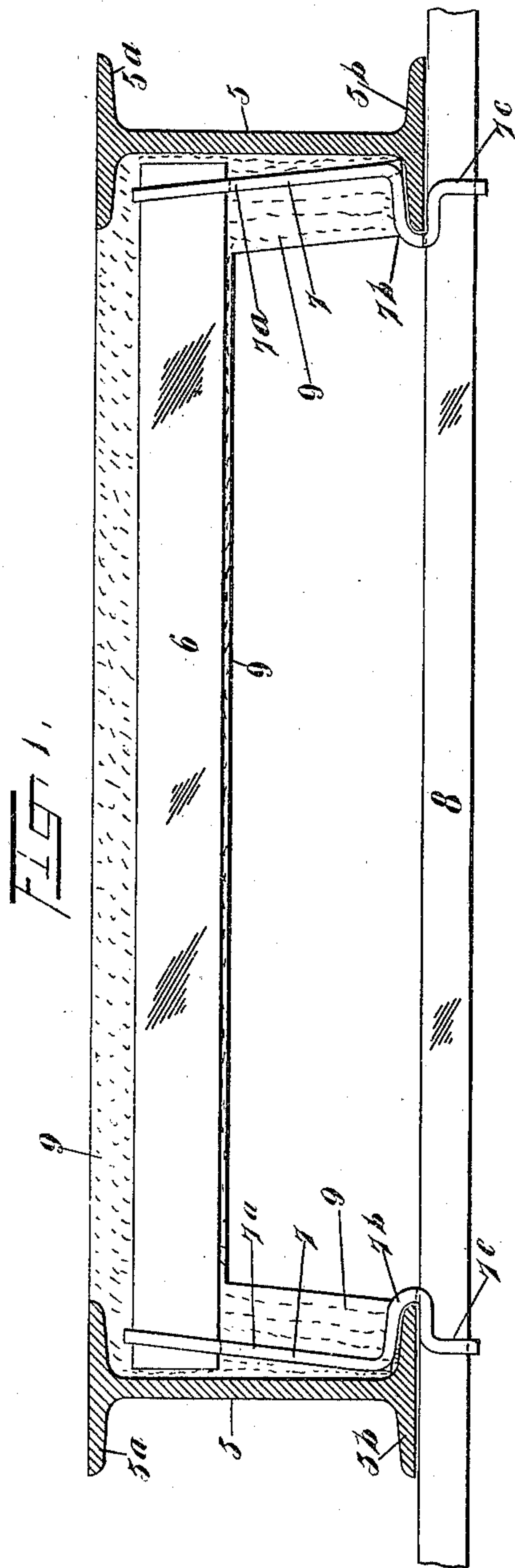
Patented Dec. 10, 1901.

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FLOOR AND CEILING SUPPORT FOR FIREPROOF BUILDINGS.

(Application filed Oct. 7, 1901.)

(No Model.)



WITNESSES

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FLOOR AND CEILING SUPPORT FOR FIREPROOF BUILDINGS.

SPECIFICATION forming part of Letters Patent No. 688,700, dated December 10, 1901.

Application filed October 7, 1901. Serial No. 77,767. (No model.)

To all whom it may concern:

Be it known that I, CHARLES HERBERT SCAMMELL, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Floor and Ceiling Supports for Fireproof Buildings, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

The object of this invention is to provide improved floor and ceiling supports for fireproof buildings which are simple in construction and operation, strong and durable, and by means of which the archwork now employed is done away with and whereby the expense of such floor and ceiling supports is largely reduced.

In the drawings forming part of this specification, in which the separate parts of my improvement are designated by the same reference characters in each of the views, Figure 1 is a transverse sectional view of two floor-beams used in the construction of fireproof buildings and showing my improved floor and ceiling support; Fig. 2, a sectional view at right angles to one side of the construction shown in Fig. 1, part of said construction being omitted; and Fig. 3 a perspective view of a detail of the construction which I employ.

In the drawings forming part of this specification I have shown at 5 two of the ordinary T-beams which are employed in the construction of fireproof buildings for supporting floors and ceilings, and these beams are provided with a top flange 5^a and a bottom flange 5^b, these flanges projecting horizontally at each side, and in the practice of my invention I provide supplemental floor and ceiling supports, which are composed of four separate parts and consist of a top horizontal bar 6, two end supports 7, and a bottom horizontal bar 8. The end supports 7 consist of plates 7^a, provided at their lower ends with loop-shaped portions 7^b, having downwardly-directed extensions 7^c, in which are formed vertical slots or openings 7^d, through which the bottom horizontal bar 8 is passed, and said plates 7 are provided near their upper ends with slots or openings 7^e, through which the top bar 6 is passed. In assembling these parts

the top horizontal bar 6 is passed through the slots or openings 7^e in the end plates 7^a, and the loop-shaped portions 7^b of the end members 7 are placed on the bottom flanges 5^b of the T-beams 5, as clearly shown in Fig. 1, and the bottom horizontal bar 8 is passed through the slots or openings 7^d in the bottom members 7^c of the end plates or members 7, all as clearly shown in Fig. 1 and also indicated in Fig. 2.

Any desired number of these supports may be employed, and two of them are shown in Fig. 2, and in practice the same are placed close together and occupy the space between the T-beams 5, and the cement or concrete, which is indicated at 9, is filled in between the bottom and top flanges of the T-beams and around the top horizontal bars 6. This construction forms a strong and permanent floor, and the ceiling is formed by means of plaster or concrete placed on and inclosing the bars 8, which serve as ordinary laths for supporting the plaster or concrete of a ceiling.

In practice I prefer to cut out the bottom portion of the side plates 7^a, as shown in Figs. 2 and 3, and by this means regulate the space between the bars 8; but my invention is not limited to the exact shape or form and construction of the parts herein shown and described, and I reserve the right to make all such alterations therein as fairly come within the scope of my invention. It will also be seen that the top horizontal bars 6 when in position are below the tops of the T-beams 5, and the concrete or other flooring material is filled in so as to be level with the top of the T-beams, while the bars 6 are entirely inclosed thereby.

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

1. The herein-described floor and ceiling supports for a fireproof building comprising T-beams and supplemental supporting devices consisting of end members adapted to be connected with the bottom flanges of said T-beams, horizontal top plates connected to said end members below the tops of the T-beams and horizontal bottom members connected with said end members below the T-beams, substantially as shown and described.

2. The herein-described supporting devices

for supporting fireproof floors and ceilings, comprising end members provided near their lower ends with loops adapted to engage the bottom flanges of T-beams, horizontal top bars adapted to be connected with the upper ends of said end members below the tops of the T-beams, and horizontal bottom bars adapted to be connected with said end members below the T-beams, substantially as shown and described.

3. The herein-described supplemental supports, comprising end plates provided near the lower ends with loops having downwardly-directed extensions, said downwardly-direct-

ed extensions and the upper ends of the end plates being provided with slots or openings, and horizontal bars adapted to be passed through said slots or openings, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 5th day of October, 1901.

CHARLES HERBERT SCAMMELL.

Witnesses:

F. A. STEWART,
F. F. TELLER.