

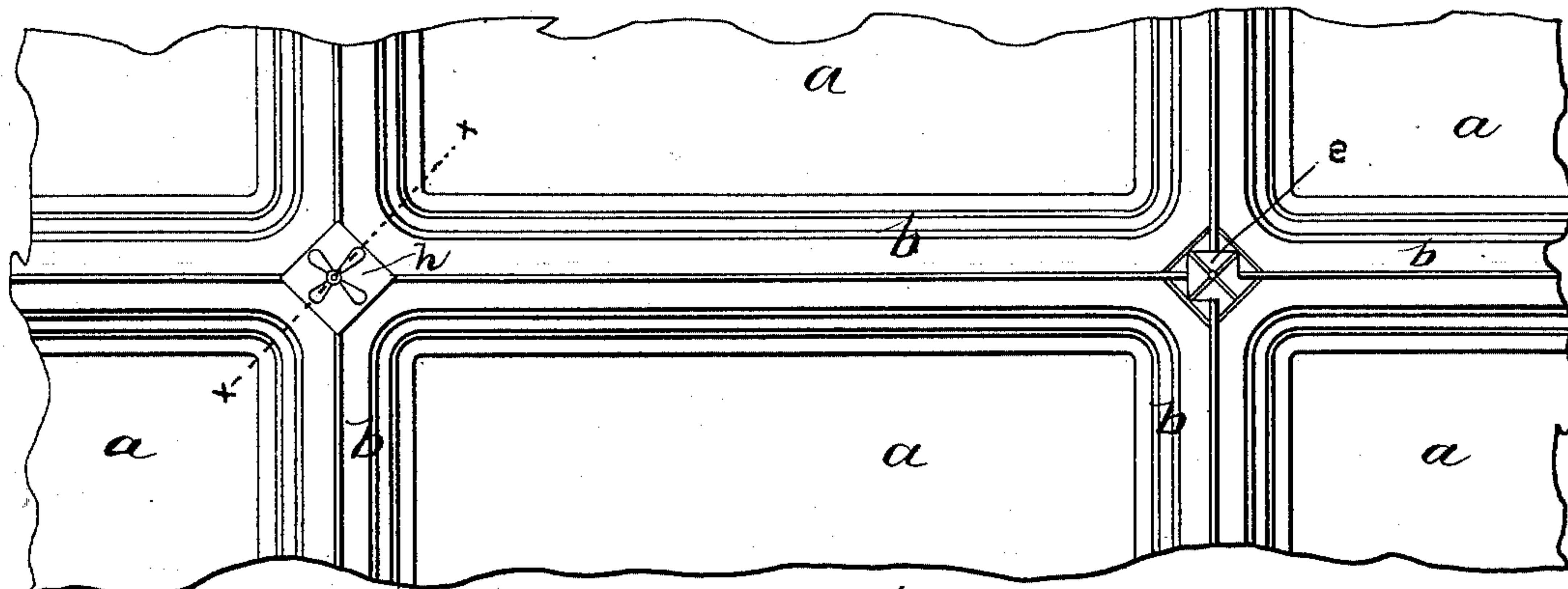
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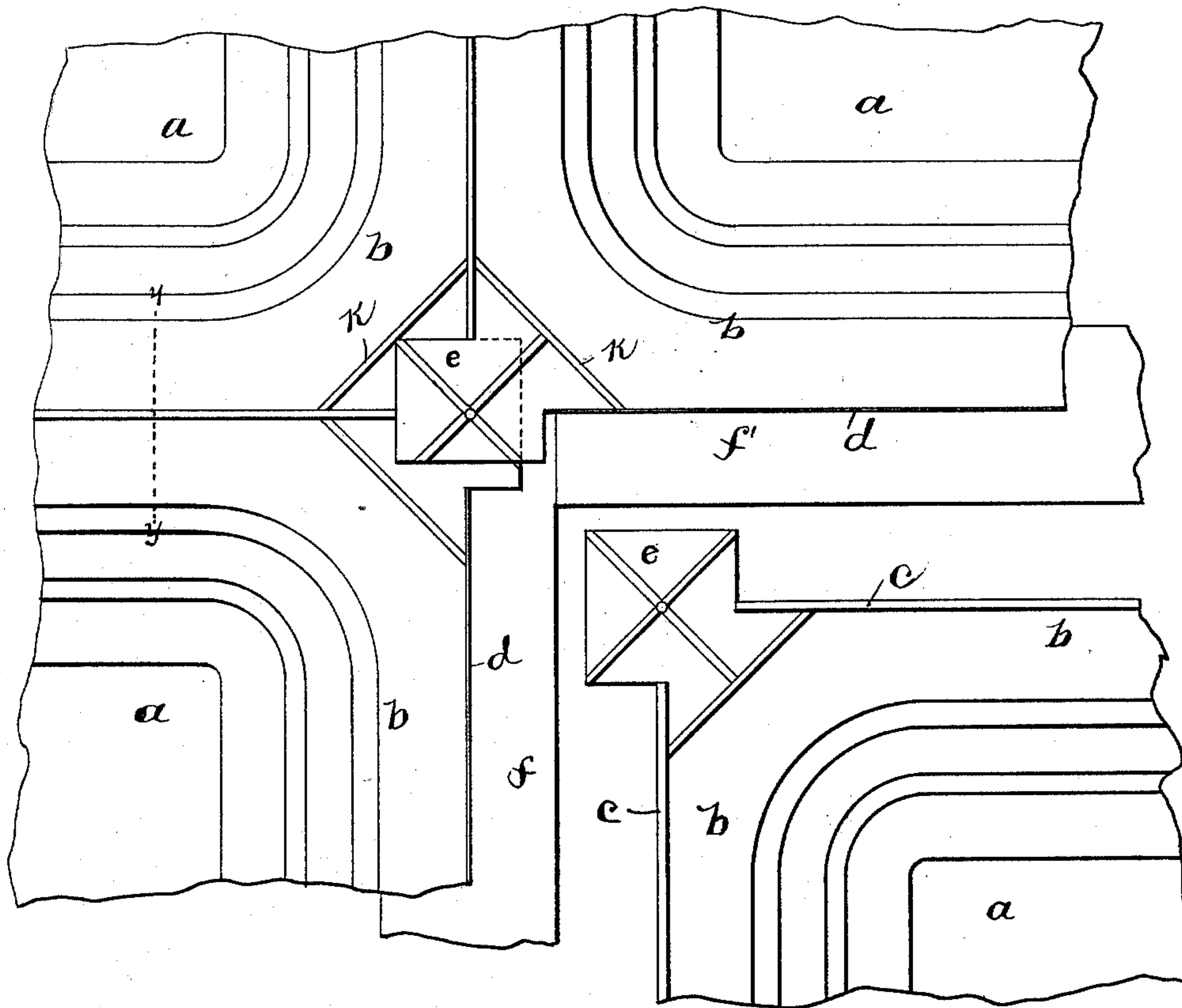
C. C. MOORE.  
METALLIC CEILING.

No. 518,464.

Patented Apr. 17, 1894.



*Fig. 1*



*Fig. 2*

WITNESSES:

*J. C. B. Bradshaw*  
*A. L. Phelps*

INVENTOR

*Charles C. Moore*

BY

*Staley and Shepherd*  
ATTORNEYS

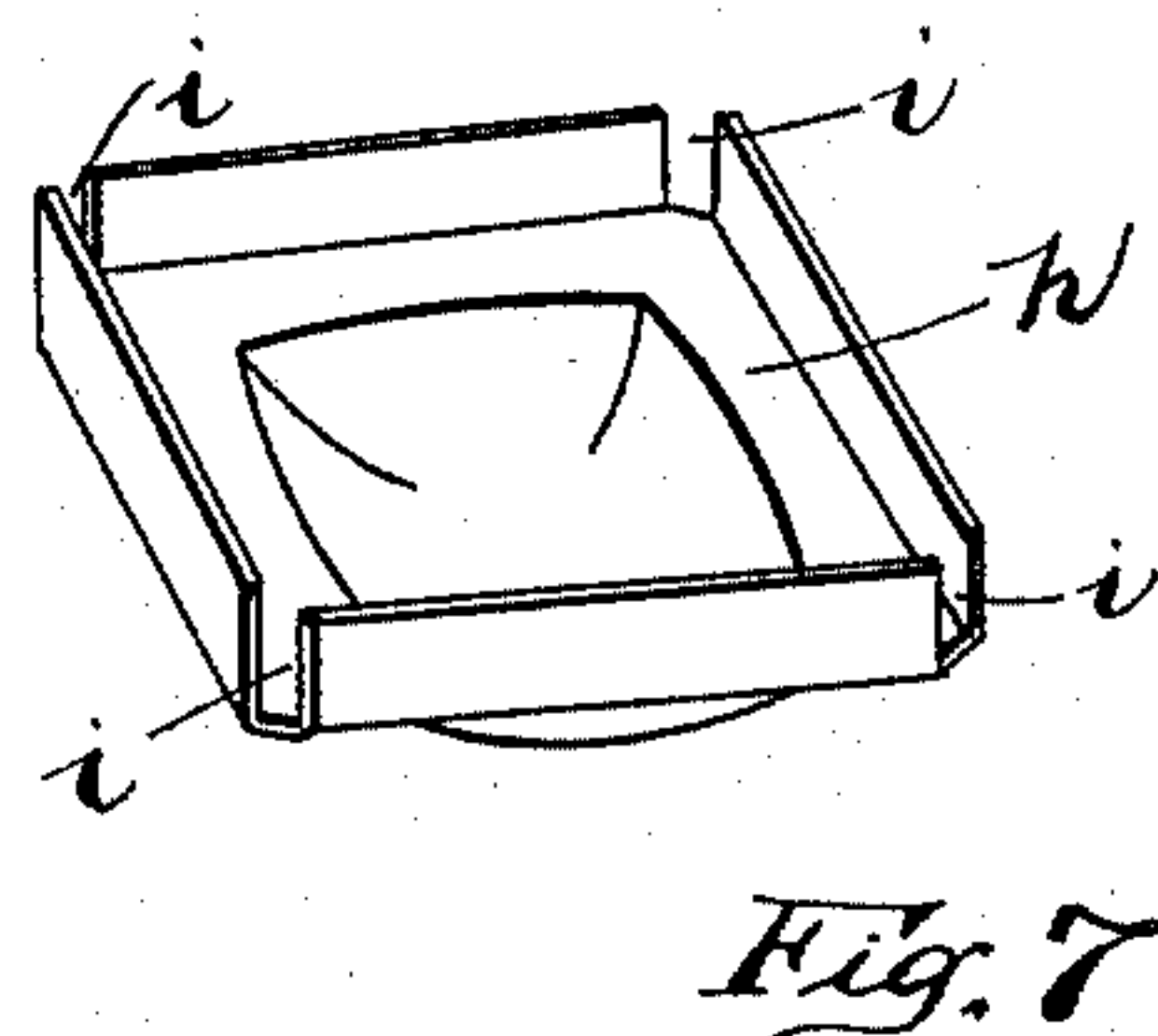
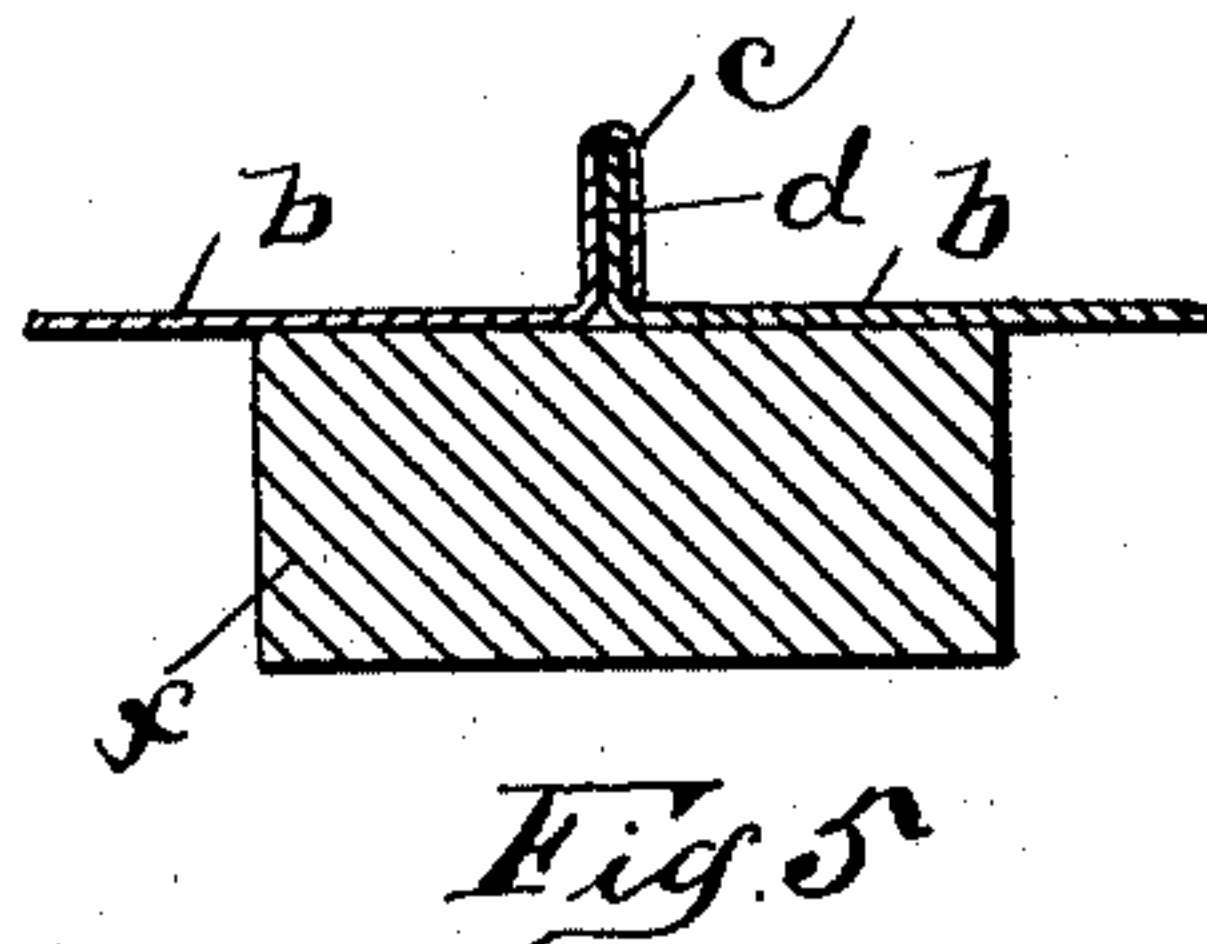
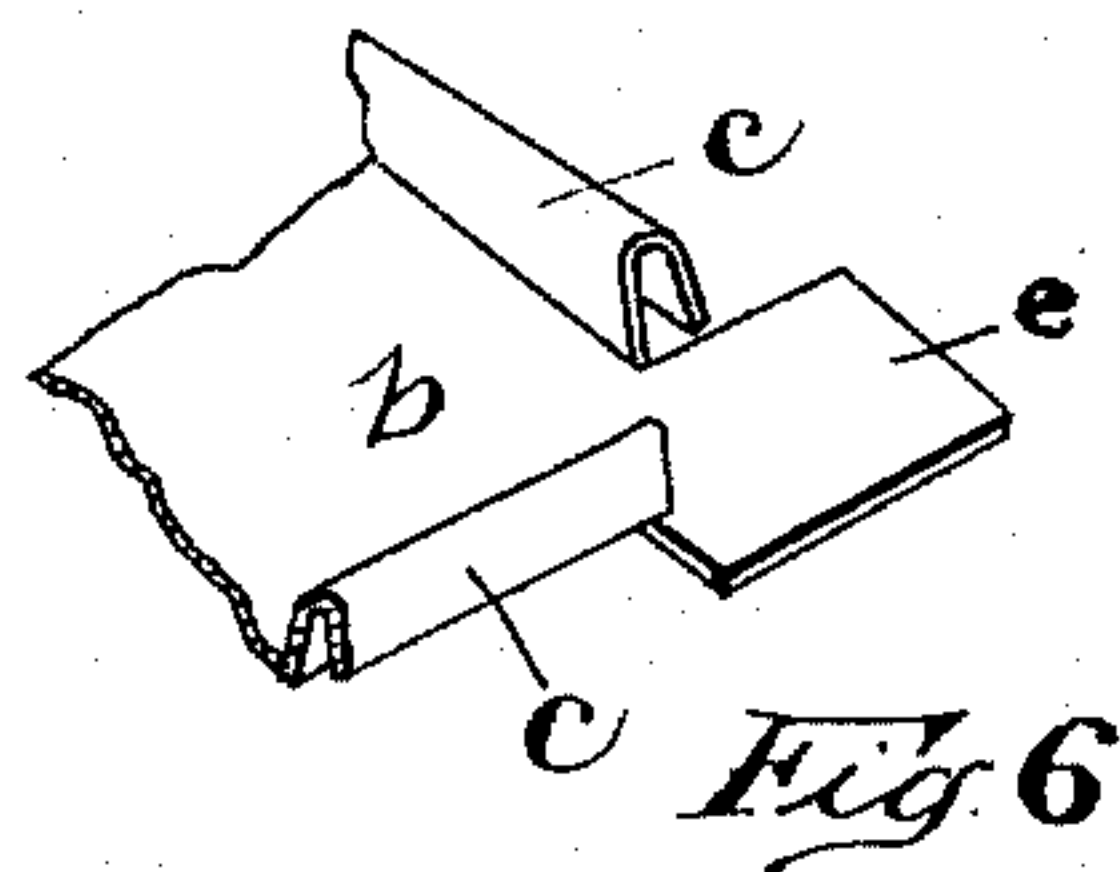
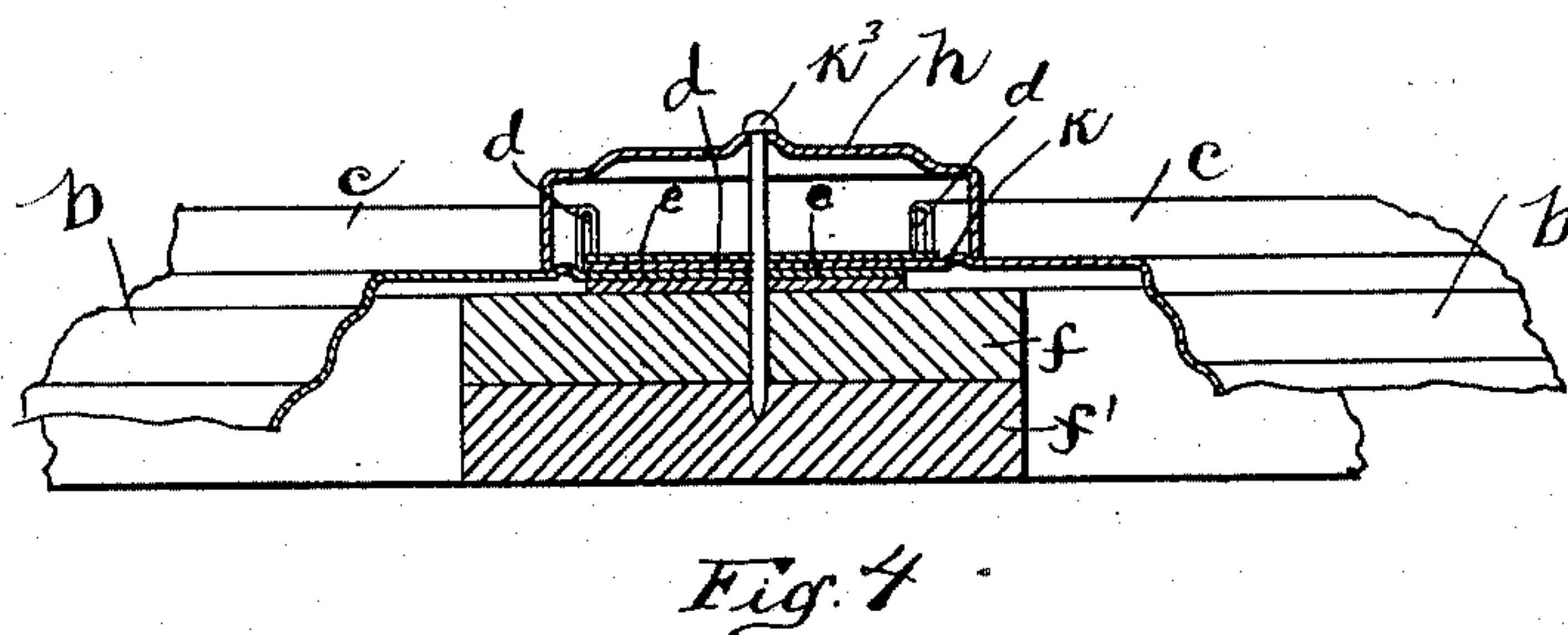
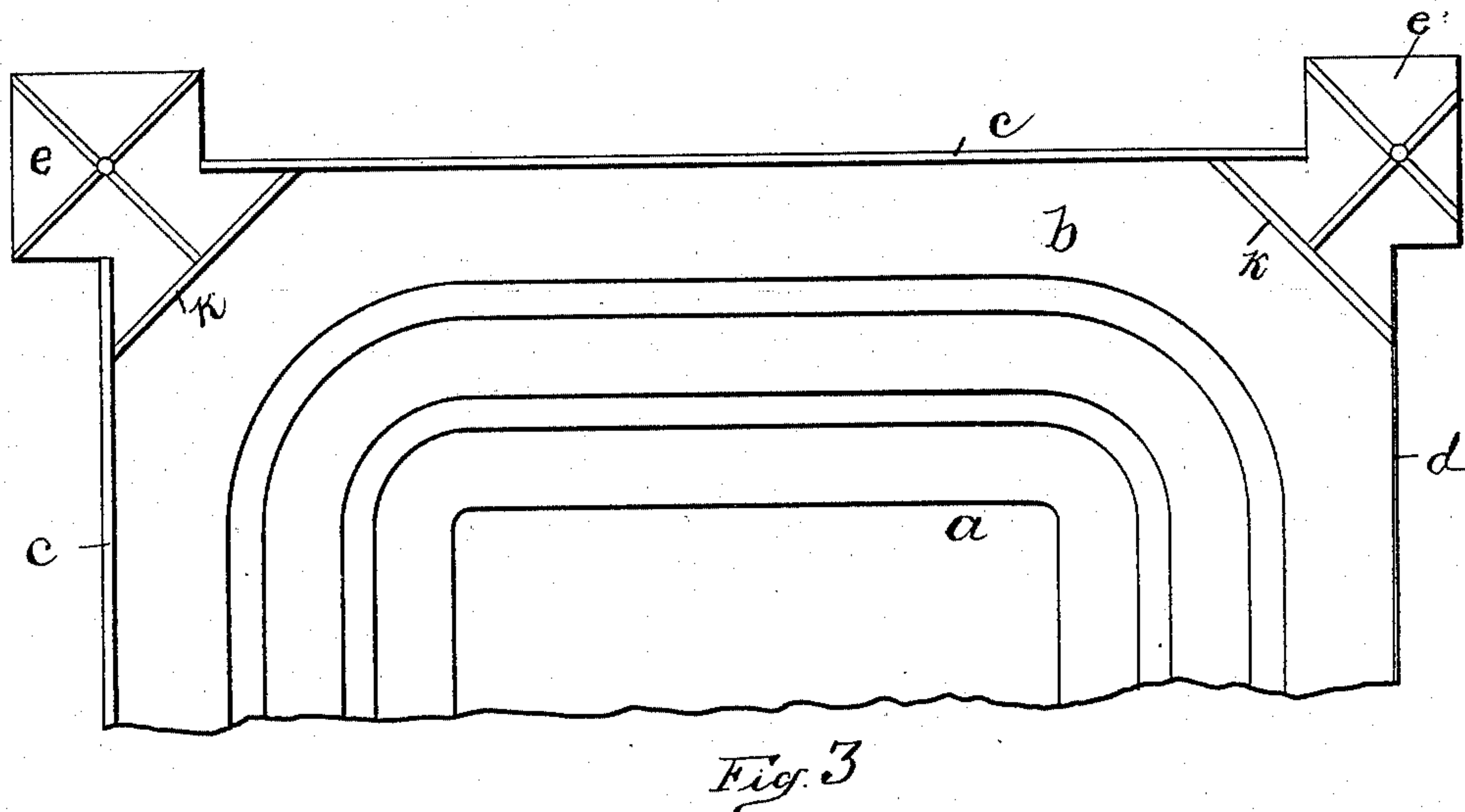
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*A. L. Phelps*

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# UNITED STATES PATENT OFFICE.

CHARLES C. MOORE, OF COLUMBUS, OHIO.

## METALLIC CEILING.

SPECIFICATION forming part of Letters Patent No. 518,464, dated April 17, 1894.

Application filed July 20, 1893. Serial No. 480,978. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES C. MOORE, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Metallic Ceilings, of which the following is a specification.

My invention relates to the improvement of metallic ceilings and the objects of my invention are to provide panels for metallic ceilings of superior construction and arrangement of parts; to facilitate the engagement of panels with each other to form lock joints; to obviate the necessity of cutting away the corners of panels; to provide an improvement in panel corners and to produce other improvements which will be more specifically pointed out hereinafter. These objects I accomplish in the manner illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of a portion of metallic ceiling showing one of the cap pieces removed. Fig. 2 is a plan view of portions of four panels, showing one of said panels detached or removed from the remaining three. Fig. 3 is a plan view of a portion of one of the panels. Fig. 4 is a sectional view taken through the corner tongues of the panels on line *x x* of Fig. 1 and enlarged therefrom. Fig. 5 is a detail sectional view on line *y y* of Fig. 2. Fig. 6 is a detail view in perspective of a panel corner and Fig. 7 is a view in perspective of one of the corner caps.

Similar letters refer to similar parts throughout the several views.

*a* represent the panels which are formed of thin sheet metal and which as shown are preferably provided with marginal moldings *b*, which are raised from the panel centers. As indicated at *c*, I provide two edges of the panel which are at right angles with each other, with outturned hook shaped portions formed as shown by bending outward each of said adjacent marginal edge portions substantially at right angles with the body of the panel and doubling said outwardly bent portions upon itself. I form the two remaining edges of each of the panels with an outturned flange of single thickness as indicated at *d*. These hook shaped edges and flanged edges of each panel extend as shown in the drawings, to within short distances of the panel corners or

intersection points of the edges, thus resulting in the formation at each corner of each panel of a projecting corner tongue or portion *e* the latter forming as shown the greater portion of a square, and being as shown a continuation of and on a level with the panel margin.

In joining four panels of the character herein described and imparting a uniform appearance thereto, I cause the panel margins to rest in the usual manner upon crossed frame pieces *f f'*, the hooked edges of one panel hooking over and engaging with the flanged edges of the adjoining panel. In forming this connection, it will be observed that the adjacent corner tongues of the panels will rest upon or overlap each other filling or substantially filling the squared spaces between the inner ends of the panel hooks and flanges. The tongues *e* thus supported one upon the other may if desired, be further secured in place by means of nails driven through said tongues into the framework beneath. I preferably employ, however, in addition to the tongues *e*, a corner or intersecting cap piece which is indicated at *h*, said cap piece having its vertical walls or sides notched or recessed at each corner as indicated at *i*. This cap piece which is provided with a central nail hole, is as plainly indicated in Fig. 4 of the drawings, made to cover the joint or corner connection made by the tongues *e*, the notches *i* of said cap serving to receive the end portions of the panel flanges *d* and hooks *c*. Those edges of the cap pieces *h* which are thus made to bear against the panels fit over and abut against the outer sides of ribs *k* formed in the horizontal portions of the panel moldings and connecting as shown the inner sides of the hooks *c* or flanges *d* at a short distance from their ends. As shown in the drawings a nail *k<sup>3</sup>* may be driven downward through the central nail hole of the cap *h* thence through the overlapping tongue *e* into the wooden frame pieces *f f'*, beneath.

When the leaves of the panel edge hooks *c* are pressed closely into contact with the panel flanges *d* which are embraced thereby, it will be seen that said hooks will impart to the ceiling the appearance of narrow bodied panel margins or edges which abut against the sides of the cap pieces. By the herein de-



scribed manner of connecting the panel sides or edges one with the other, it will be observed that a neat and reliable joint of the panels will be formed in which no sharp edges will be presented to view.

The formation of the corner tongues *e* in the manner herein described and shown is a natural result of bending outward the edge flanges and hooks of the panels and these tongues as will readily be observed not only greatly aid in the attachment of the panels to the framework, but serve to form a substantially water tight and fire proof covering at the corners. It will be observed that by the use of said tongues, the necessity of cutting away the corners of the panels, as is ordinarily done is entirely obviated.

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

1. In a metallic ceiling the combination with the panels and means for joining the sides or edges thereof, of corner tongues *e* adapted to overlap each other as described when said panels are joined, substantially as and for the purpose specified.

2. In a metallic ceiling the combination with the panels and oppositely located hooked and flanged edges as described on said panels, of corner tongues *e* projecting from the corner of said panels and adapted to overlap each other when said panels are joined and a suitable cap adapted to cover the outer panel corner tongue, substantially as and for the purpose specified.

3. In a metallic ceiling the combination with the panels and means for joining the edges thereof, of corner tongues *e* projecting as described from the corners of said panels and adapted to overlap each other when said panels are joined, ribs *k* extending across the corners of said panels as described and a cap piece having corner notches or recesses and adapted to fit over the outer tongue *d* and having its inner edges abutting against the ribs *k* substantially as and for the purpose specified.

CHARLES C. MOORE.

In presence of—

C. C. SHEPHERD,  
H. B. BRADSHAW.