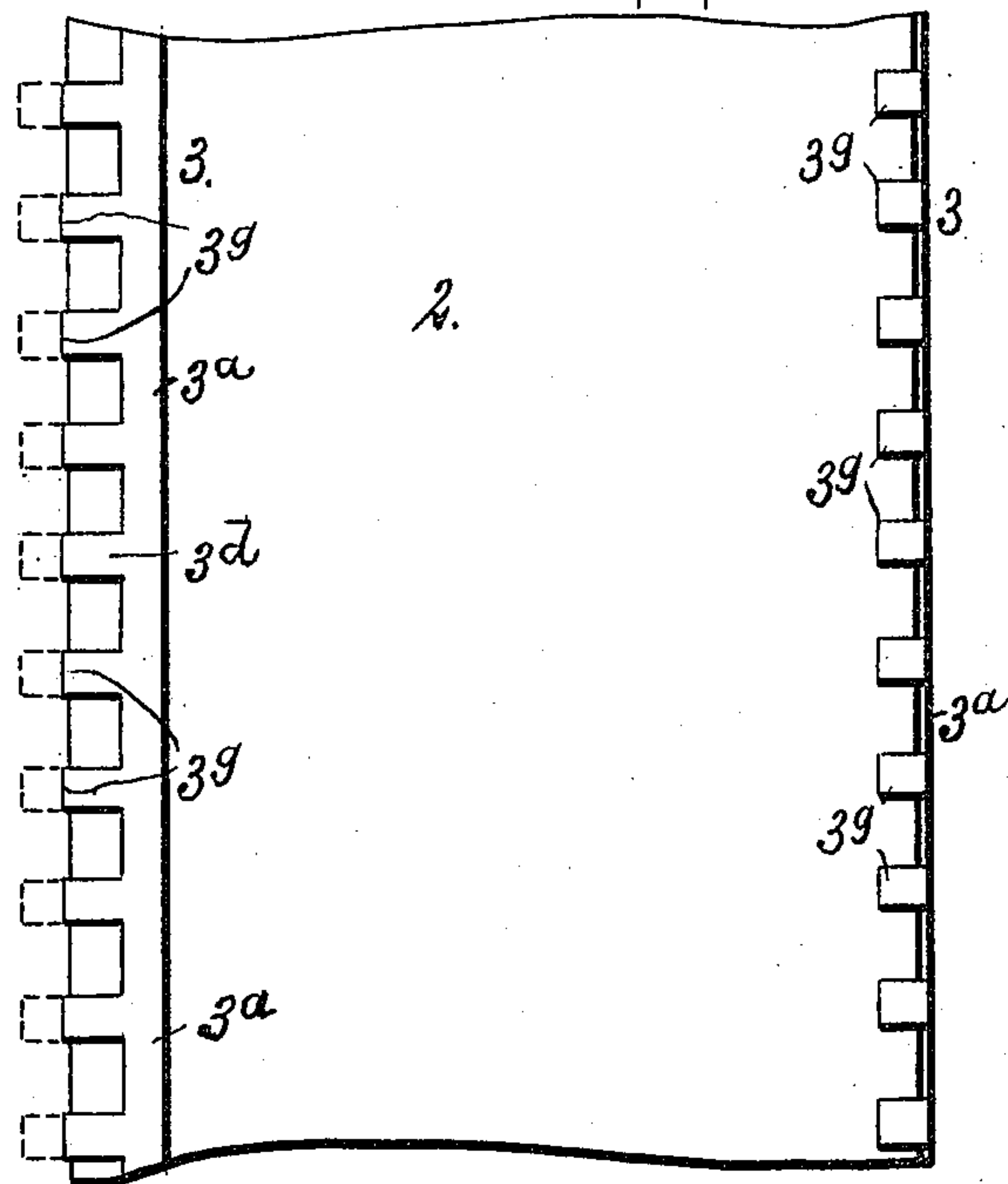
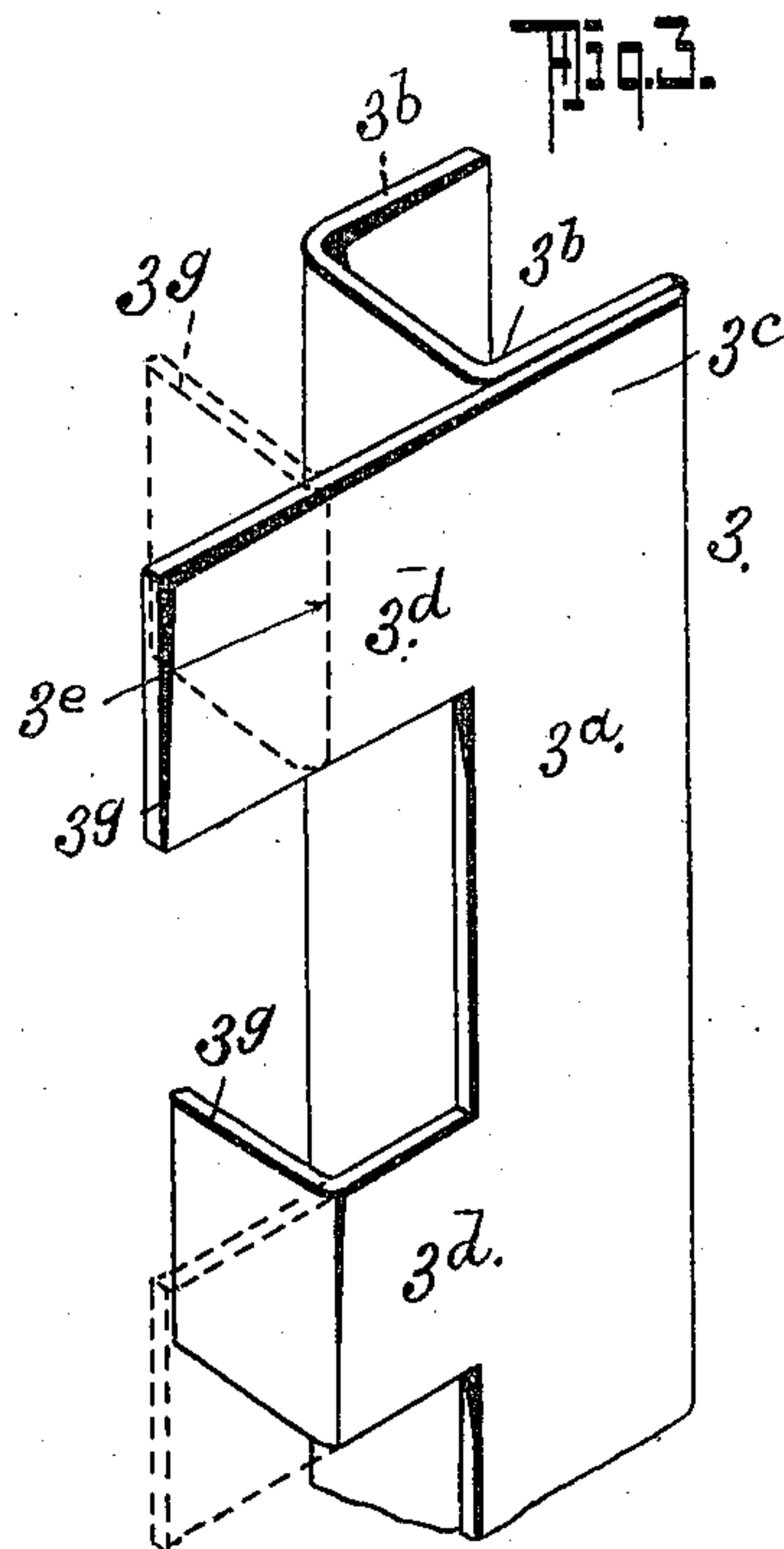
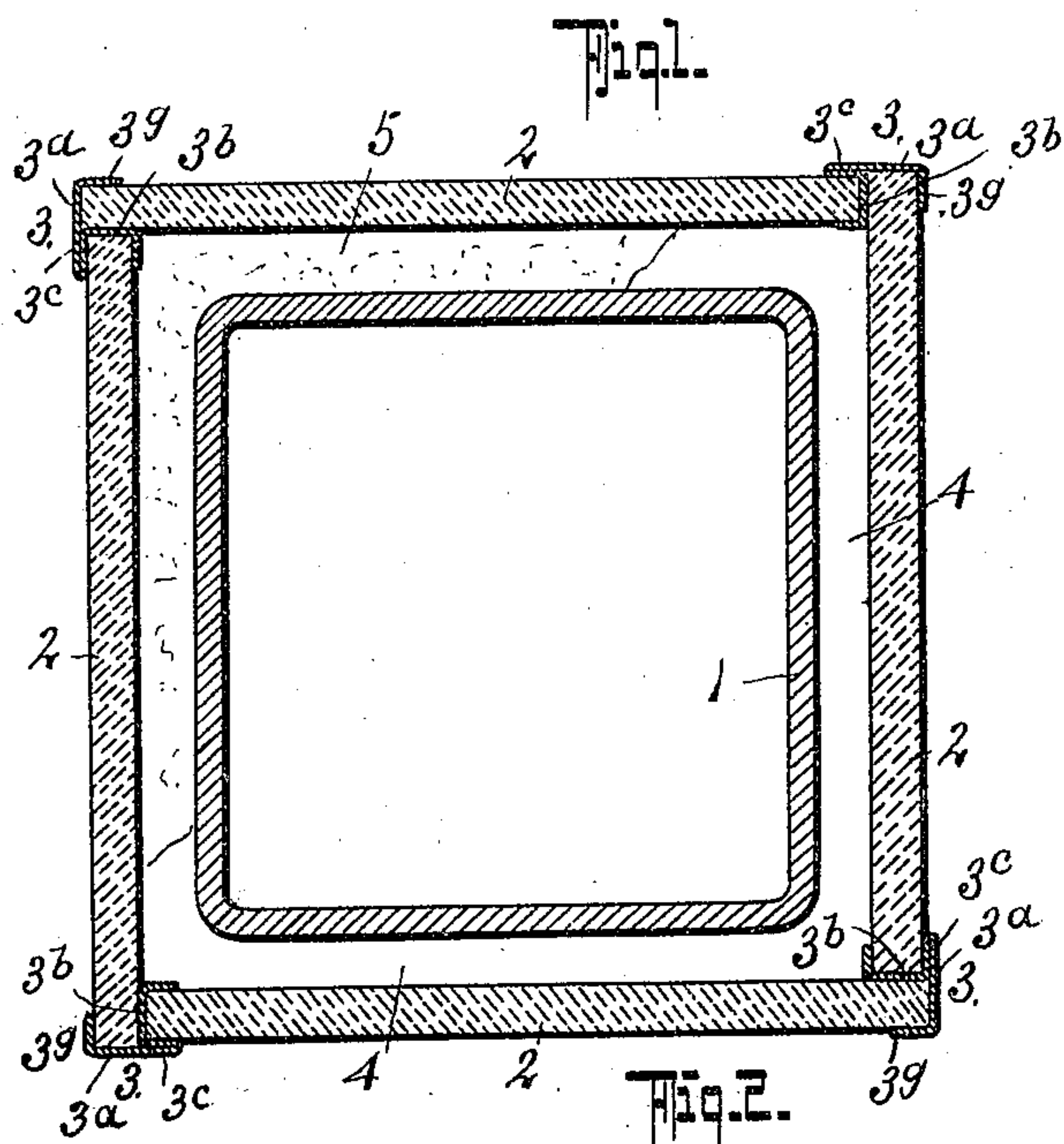


H. I. JEFFERS.
BUILDING CONSTRUCTION.
APPLICATION FILED OCT. 25, 1909.

975,692.

Patented Nov. 15, 1910.



WITNESSES:
Hayward Woodard
Charles H. Wagner.

INVENTOR
Harry I. Jeffers
BY
Fred J. Atterich
ATTORNEYS

UNITED STATES PATENT OFFICE.

HARRY IRWIN JEFFERS, OF FORT SMITH, ARKANSAS, ASSIGNOR OF ONE-HALF TO
WILLIAM F. MAY, OF FORT SMITH, ARKANSAS.

BUILDING CONSTRUCTION.

975,692.

Specification of Letters Patent.

Patented Nov. 15, 1910.

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To all whom it may concern:

Be it known that I, HARRY I. JEFFERS, residing at Fort Smith, in the county of Sebastian and State of Arkansas, have invented certain new and useful Improvements in Building Construction, of which the following is a specification.

My present invention relates to certain new and useful improvements in fire-proof buildings, and it seeks to carry forward the system of fire-proof construction, one type of which is disclosed in my Patent No. 927,050, dated July 6, 1909.

My present invention has for its object to provide a fire-proof column construction.

In its more subordinate nature, the invention resides in those novel details of construction, combination and arrangement of parts, all of which will be first fully described, then be specifically pointed out in the appended claims, and illustrated in the accompanying drawings, in which:

Figure 1, is a cross sectional view of a column embodying my invention. Fig. 2, is a side elevation of a portion thereof. Fig. 3, is an enlarged detail perspective view of the metallic partition used at such corner.

Referring now to the accompanying drawings, and more particularly to the column construction shown in Fig. 1, it will be seen that when it is desired to incase a square iron column with a fire-proof sheathing and provide an air space between the same, I provide a series of fire-proof slabs or blocks, of cement, concrete or other suitable material, arranged in rectangular form, in cross section, and joined at their corners by metallic studding.

The iron columns are designated by the reference numeral 1, in the drawings, and may be of the ordinary construction. The fire-proof slabs are indicated by 2 and the metallic partitions by 3. The air space surrounding the column 1 is indicated by the numerals 4, and in practice, the air space may be left as such, or it may be filled either in whole or in part, with a suitable filling 5, indicated in Fig. 1, of the drawings. The studding 3, used in connection with this form of my invention, is formed of a single piece of sheet metal having the body portion 3^a and the flange portions 3^b—3^b, to form a substantially U-shaped channel, as it were, to receive one edge of the slab 2, the flange portion 3^b

merging with a portion 3^c that is bent back parallel to the portion 3^b and in close proximity thereto, and with which a series of projecting ears 3^d merge, the ears 3^d being spaced apart and bendable along the line 3^e thereof to form clips 3^e to embrace a part of the outer surface of the slabs 2 and form, as it were, in connection with the body 3^a, and ear body 3^d, a U-shaped channel for the opposing slab 2.

In practice when it is merely desired to obtain a column effect in a building, and the column is not necessarily to be used as a principal supporting medium, the ordinary iron column may be omitted and the skeleton column of fire-proof slabs 2 and metallic studding 3 may be used alone.

From the foregoing description taken in connection with the accompanying drawings, it is thought the complete construction, operation and numerous advantages of my invention will be readily understood by those skilled in the art to which the invention appertains.

What I claim is:

1. In a fire-proof structure, a sheet metal support comprising a body and sides forming a U-shaped block receiving channel, one of said sides being longer than the other and bent back upon itself and projecting therefrom beyond the body and terminating in ears, said ears being bendable over at right angles and parallel to said body to form a U-shaped channel therewith.

2. In a fire-proof structure, a sheet metal support comprising a body and sides forming a U-shaped block receiving channel, one of said sides being longer than the other and bent back upon itself and projecting therefrom beyond the body and terminating in ears, said ears being bendable over at right angles and parallel to said body to form a U-shape channel therewith and at right angles to said first channel.

3. In a fire-proof structure, a sheet metal support comprising a body and sides forming a U-shaped block receiving channel, one of said sides being longer than the other and bent back upon itself and projecting therefrom beyond the body and terminating in ears, said ears being bendable over at right angles and parallel to said body to form a U-shape channel therewith and at right angles to said first channel, and fire-proof blocks held in said channels.

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4. A fire-proof column construction, a plurality of walls and corner supports uniting the same, said supports comprising members formed of a single piece of sheet metal and bent to form two U-shaped wall receiving channels at substantially right angles to one another.

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10 5. A fire-proof column construction, a plurality of walls and corner supports uniting the same, said supports comprising

members formed of a single piece of sheet metal and bent to form two U-shaped wall receiving channels at substantially right angles to one another and including bendable ears to clasp certain of the edges of said walls. 15

HARRY IRWIN JEFFERS.

Witnesses:

FRED B. JOHNSTON,
W. W. McKINNEY.