

L. F. JACKSON.
BUILDING PARTITION.
APPLICATION FILED FEB. 15, 1910.

998,293.

Patented July 18, 1911.

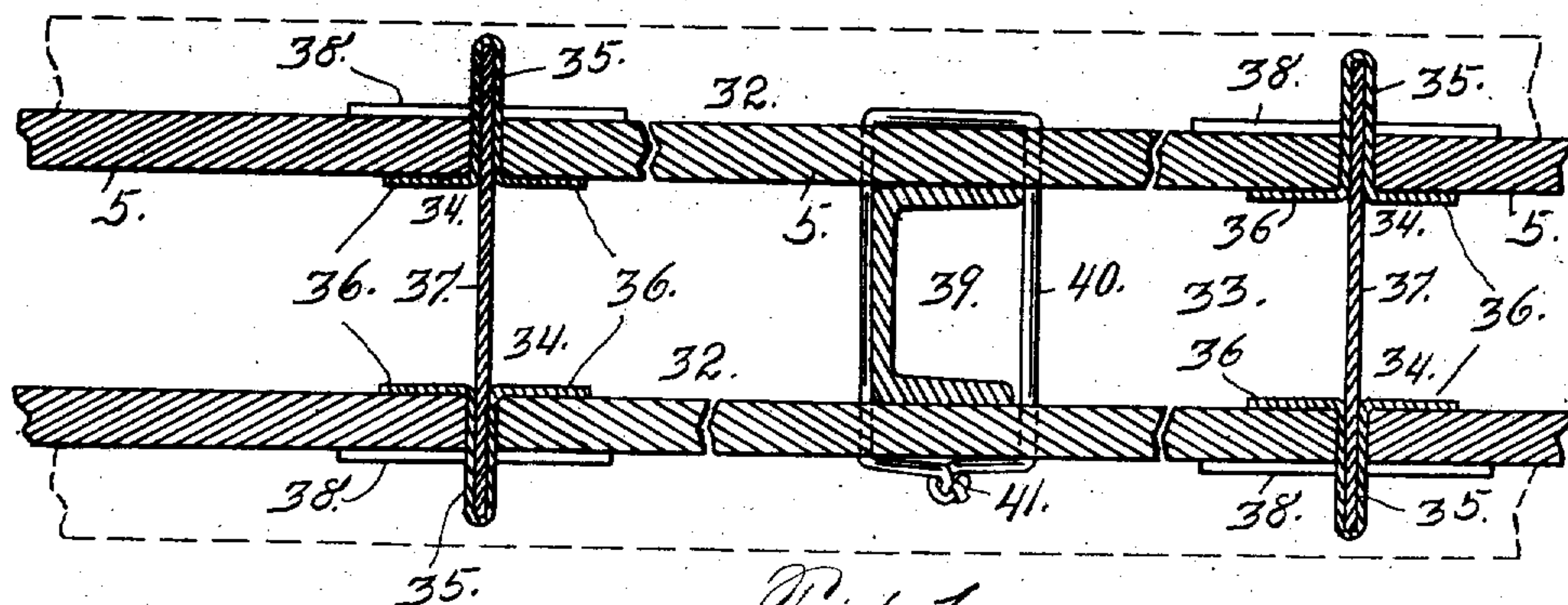


Fig. 1.

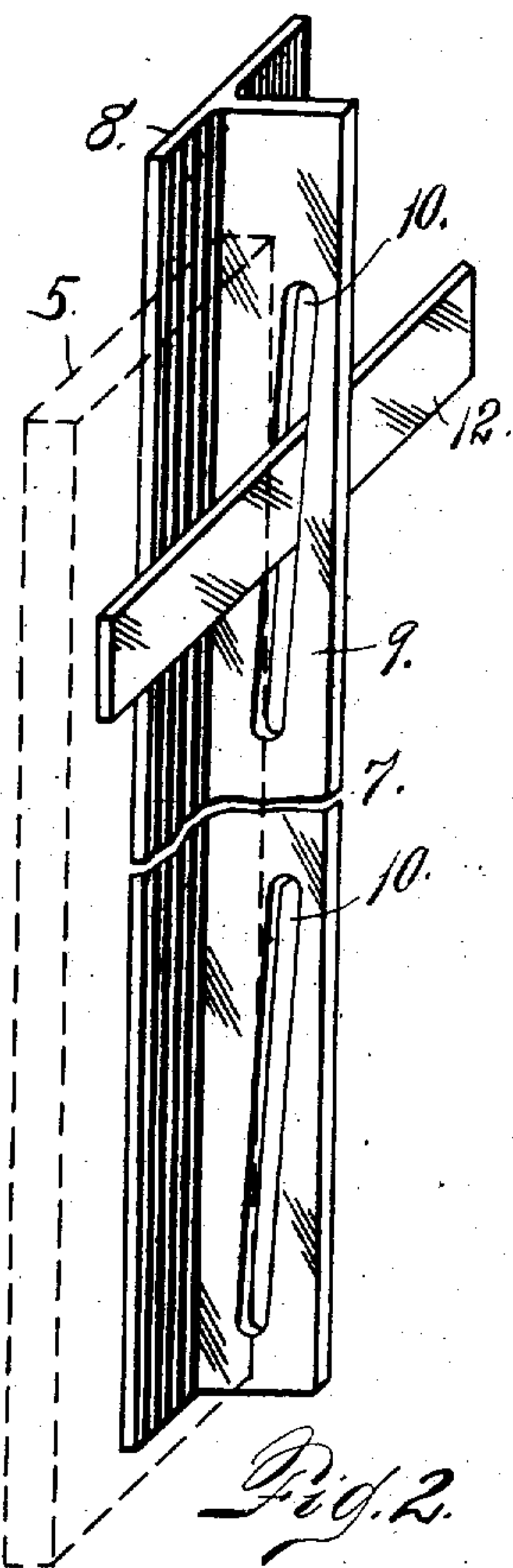


Fig. 2.

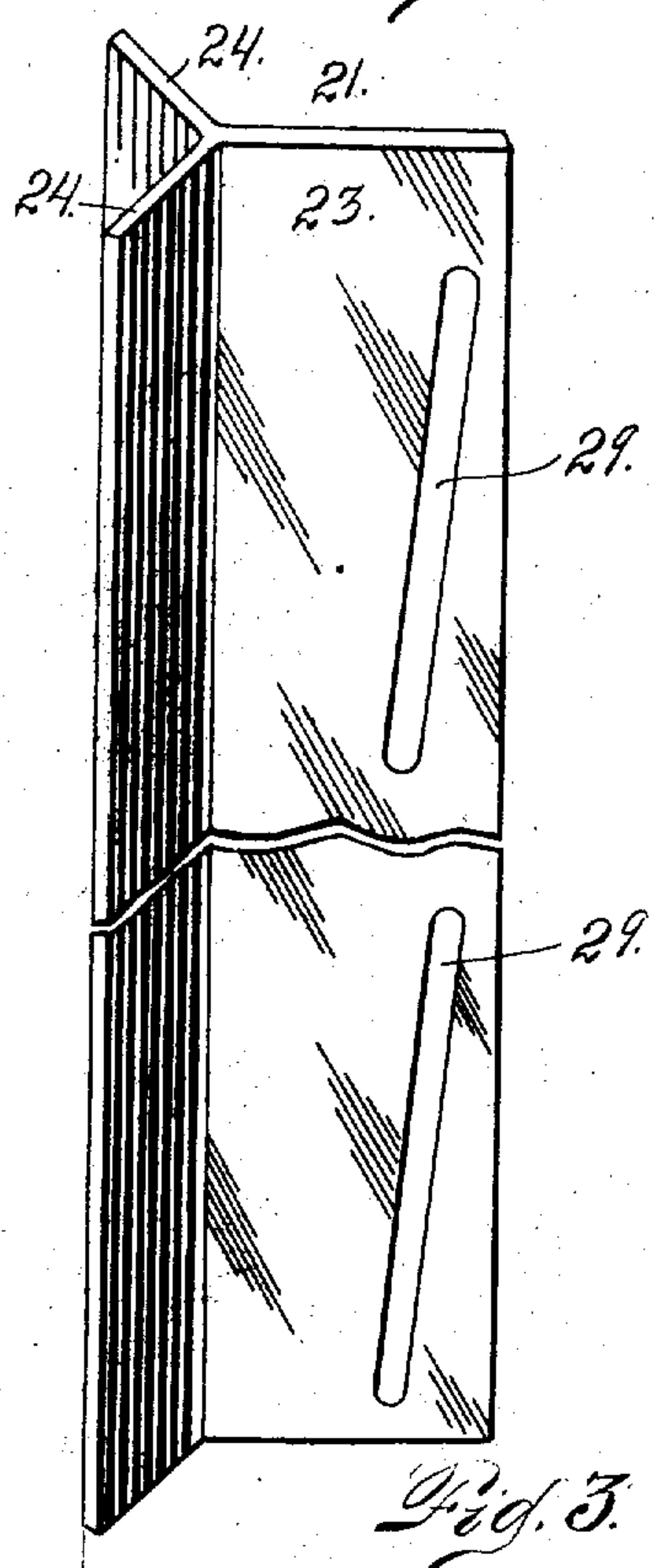


Fig. 3.

Witnesses

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LOUIS F. JACKSON, OF DENVER, COLORADO, ASSIGNOR TO DAVIS-JACKSON SUPPLY COMPANY, OF DENVER, COLORADO, COPARTNERS.

BUILDING-PARTITION.

998,293.

Specification of Letters Patent.

Patented July 18, 1911.

Application filed February 15, 1910. Serial No. 543,964.

To all whom it may concern:

Be it known that I, LOUIS F. JACKSON, a citizen of the United States, residing at the city and county of Denver and State of Colorado, have invented certain new and useful Improvements in Building-Partitions; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in partitions for buildings, being more especially intended for use in the construction of fireproof partitions, though it must be understood that my construction may be composed of any suitable material, whether completely fireproof or not, without departing from the spirit of the invention.

My improved partition structure forms the support for the plaster which constitutes the partition of a building, room or other structure and I prefer to employ as the sheeting or main member of the partition, a noncombustible or fireproof board, relatively thin but of sufficient stiffness or rigidity to accomplish the purpose. This board is of such structure that plaster will adhere to its surfaces while the board forms a perfect closure without openings for the rooting or anchoring of the plaster, as is usually required. The vertical edges of the sheets of this board are jointed by T-shaped metal bars, the central member of the T-iron or bar passing between the edges of the sheets of board and protruding therefrom the desired distance for fastening purposes. In these protruding members or tongues of the T-shaped bars are formed slots which are slightly inclined or extend at an angle to the surface of the board. Through these slots are passed fastening devices forming keys which preferably consist of small metal plates adapted to slide within the slots of the said tongues and when moved longitudinally in the said slots will securely fasten the T-irons and board or sheeting structure together, the slots being so arranged that normally a portion at one end of each slot will occupy a position between the edges of the board, being partly

concealed thereby, so that when the keys or small metal plates are moved toward the partially concealed extremity of the slot, there will be a tendency to bring the board and the metal bars into a tightly clamped relation. It may be stated that it is preferable for the slots in the protruding portions of the said tongues to have their partially concealed extremities lowermost so that the tendency of the keys will be to move downwardly in vertical partitions.

It must be understood that my improved partition structure may be used for sheeting purposes generally, whether the partition or wall required is vertical or not.

The metal keys passing through the slots of the tongues of the T-iron bars may consist of relatively long strips, each of which may pass through the slots of any desired number of T-irons. In this way the fastening keys may form stiffening means for the partition.

Having briefly outlined my improved construction, I will proceed to describe the same in detail, reference being made to the accompanying drawing, in which is illustrated an embodiment thereof.

In this drawing: Figure 1 is a horizontal section showing a modified form of construction. Fig. 2 is a perspective view of one of the T-iron studs showing a fastening key in one of its slots, the sheeting being indicated by dotted lines. Fig. 3 is a similar view of one of the corner members of the structure.

The same reference characters indicate the same parts in all the views.

Let the numeral 5 designate the sheeting of my improved partition. In this description it will be assumed that the wall or partition described occupies a vertical position, though it will be understood, as before stated, that walls of this structure may be formed which occupy other than vertical positions. Applied to the portions of the sheets corresponding with the vertical joints between the adjacent edges of the said sheets, are T-iron bars or studs 7, whose members 8 overlap the two adjacent sheets on opposite sides of the vertical joints, while the members 9 extending from the center of the members 8 and constituting tongues, pass between the vertical edges of the sheets and protrude therefrom on the opposite

side of the partition. These tongues 9 are provided with slots 10 whose upper portions normally project slightly beyond the surface of the sheeting 5 on the side where the tongues protrude, to permit the insertion of fastening keys 12 preferably composed of metal plates which are applied by inserting them in the upper portions of the slots 10 and moving them downwardly therein, whereby the sheeting is tightly clamped between the keys and the members 8 of the T-iron studs. The slots 10 form a slight angle to the vertical when the studs are in the upright position and normally, as heretofore explained, before the keys 12 have performed their function, portions at least of the slots below their upper extremities, are partly concealed between the joints or adjacent edges of the sheets, thus allowing a sufficient range of adjustment for obtaining the desired clamping capacity.

As shown in the drawing, the T-iron studs or bars are secured to the floor 13 by means of angle-iron members 14, one part of each angle iron being made fast to the floor by a screw 15 while the other part is connected with the tongue 9 of the stud by a bolt 16. It is evident that any suitable fastening means may be employed for properly securing the T-iron studs to the floor.

The construction disclosed in Fig. 5 is a modification of the invention and is adapted for use where a hollow wall is desired. In this event two parallel vertically arranged wall members 32 are employed. These members being separated by a suitable space 33. In this case the T-irons or bars 34 have hollow central tongues 35 which pass through the two wall members and protrude on the outside while the flanges 36 constituting the base of these studs engage the sheeting members on the inside. The hollow tongues of the studs pass between the adjacent vertical edges of the sheeting members of the partition and these studs are arranged in pairs, the members of which are directly opposite each other in the wall members 32, and the hollow tongues are adapted to receive vertically disposed plates 37 of sufficient width to fit closely between the vertical edges of the hollow tongues and span the space between the sheeting members of the wall. The protruding extremities of the hollow tongues and the corresponding portions of each plate 37, are provided with slots, one member of each device having a straight slot and the cooperating member an inclined slot, adapted to receive keys 38, whereby the parts are securely connected with each other and with the sheeting members of the wall or partition. In order to suitably strengthen this wall or partition, as illustrated in Fig. 5, I prefer to employ spacing channel bars 39 which are secured

in place by suitable means 40 passed through both members 32 of the wall or partition. This device, as illustrated in the drawing, consists of a wire member whose extremities are brought together, after having been passed through both partition members, and fastened as shown at 41. It is evident, however, that any suitable means may be employed for securing these spacing bars in place between the partition members 32.

Having thus described my invention, what I claim is:

1. In a wall or partition including a suitable sheeting, the combination of T-shaped bars or studs having their central members passed between the edges of the sheets forming the partition, the protruding portions of the central members having slots inclined to the plane of the body of the T-shaped bars or studs, and fastening keys inserted in the slots for holding the sheeting in engagement with the bars or studs, substantially as described.

2. In a wall or partition including a suitable sheeting, the combination of bars or studs, T-shaped in cross-section and having their central members passed between the edges of the sheets forming the partition, and protruding beyond the sheets, their protruding portions being provided with slots inclined to the plane of the body portion of the bars or studs, and a key inserted in the said slots for holding the sheets in place, substantially as described.

3. In a wall or partition including a suitable sheeting the combination with a T-shaped bar or stud having its central member passed between the edges of the sheeting forming the partition, the protruding portion of the central member having slots inclined to the plane of the body portion of the T-shaped bar or stud, and fastening keys inserted in the slots, for the purpose set forth.

4. In a wall or partition including a suitable sheeting, the combination of a bar or stud, T-shaped in cross-section and having its central member passed between the edges of the sheets forming the partition and protruding beyond the sheets, its protruding portion being provided with a slot inclined to the plane of the body portion of the T-shaped bar or stud, and a key inserted in the said slot for holding the sheeting in position, substantially as described.

5. In a wall or partition including a suitable sheeting, bars or studs, T-shaped in cross-section and having their central members passed between the edges of the sheets forming the partitions and protruding from one side thereof, the protruding portions of the members having slots arranged diagonally thereof, substantially as described.

6. As an improved article of manufacture,

a stud or bar, T-shaped in cross-section, and having one member provided with slots inclined to the plane of the other member, whereby a wedging action may be given to fastening devices inserted in the said slots for the purpose set forth.

7. As an improved article of manufacture, a stud or bar, T-shaped in cross-section and having one member provided with slots arranged diagonally thereof whereby a wedging action may be given to fastening devices inserted in the said slots, substantially as described.

8. As an improved article of manufacture, a stud or bar T-shaped in cross-section and having one member provided with slots inclined to the plane of the other member, whereby a wedging action may be given to a fastening device inserted therein.

9. As an improved article of manufacture, a stud or bar T-shaped in cross-section and having one of its members provided with slots inclined to the other member diagonally of the length of the bar whereby a wedging action may be given to fastening

devices inserted in the said slots, substantially as described.

10. In a wall or partition, including a suitable sheeting, the combination with a bar or stud having a laterally extending member passed between the edges of the sheeting forming the partition, the said member having slots inclined to the plane of the bar or stud, and fastening keys inserted in the said slots, for the purpose set forth.

11. The combination with a suitable sheeting, of a bar or stud having a laterally extending member passed through the sheeting, the said member having slots inclined to the plane of the bar or stud, and fastening keys inserted in the said slots, for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

LOUIS F. JACKSON.

Witnesses:

VIRGINIA I. DAVIS,
A. EBERT O'BRIEN.

Correction in Letters Patent No. 998,293.

It is hereby certified that in Letters Patent No. 998,293, granted July 18, 1911, upon the application of Louis F. Jackson, of Denver, Colorado, for an improvement in "Building-Partitions," an error appears in the printed specification requiring correction as follows: Page 2, lines 31 and 63, for the abbreviation and numeral "Fig. 5" read *Fig. 1*; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 6th day of February, A. D., 1912.

[SEAL.]

C. C. BILLINGS,

Acting Commissioner of Patents.

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