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PATENTED MAR. 19, 1907.

T. D. LYNCH.

FIREPROOF CONSTRUCTION OF BUILDINGS.

APPLICATION FILED MAY 31, 1905.

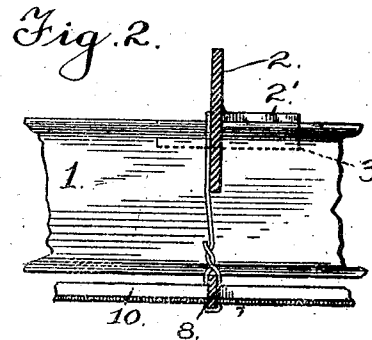
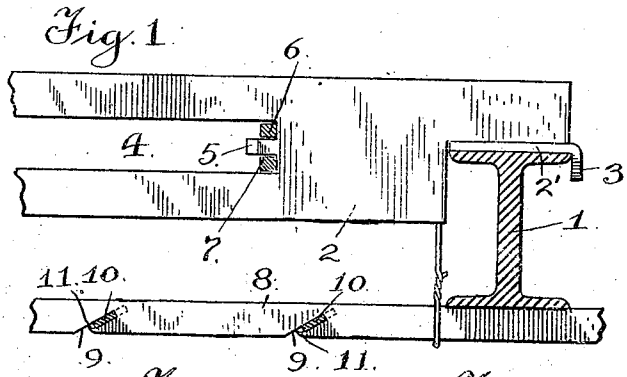


Fig. 3.

Fig. 4.

Fig. 5.

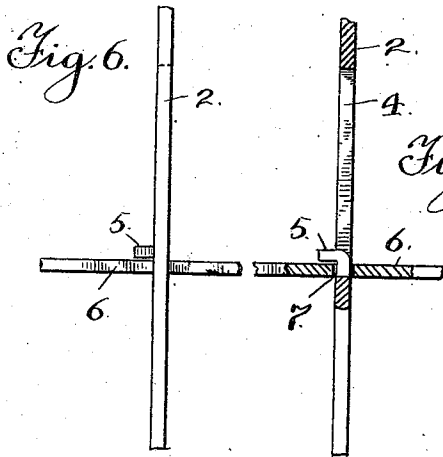
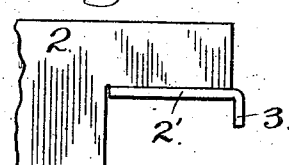
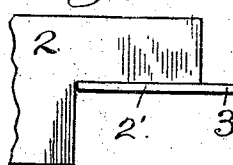
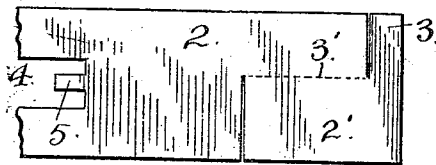


Fig. 7.

Fig. 8.

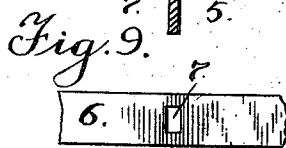
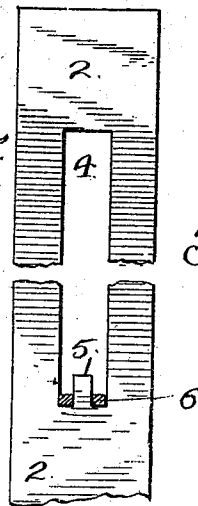
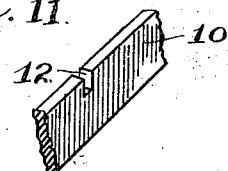
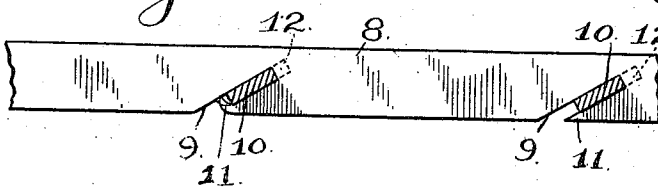


Fig. 10.

Fig. 11.



Witnesses:  
Arthur F. Lee  
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# UNITED STATES PATENT OFFICE.

TIMOTHY D. LYNCH, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR OF TWO-THIRDS TO MICHAEL C. LYNCH AND PETER J. LYNCH, OF SAN FRANCISCO, CALIFORNIA.

## FIREPROOF CONSTRUCTION OF BUILDINGS.

No. 847,420.

Specification of Letters Patent.

Patented March 19, 1907.

Application filed May 31, 1905. Serial No. 262,972.

*To all whom it may concern:*

Be it known that I, TIMOTHY D. LYNCH, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Fireproof Construction of Buildings, of which the following is a specification.

My invention relates to improvements in the fireproof construction of buildings having metal frames.

The objects of my invention are to provide an improved method of such construction which is simple and can be accomplished with the minimum of labor and cost.

My invention consists in the novel combination and arrangement of parts shown in the accompanying drawings, described in the following specification, and claimed in the appended claims, and I declare that my invention is so described that any one skilled in the art may make and use the same.

Referring to the accompanying drawing, Figure 1 is a side elevation of the fireproof construction in connection with a cross-section of an I-beam. Fig. 2 is a section of the construction shown in Fig. 1 when taken in connection with a side view of the I-beam. Fig. 3, Fig. 4, and Fig. 5 are details showing the method of cutting and bending in such construction. Fig. 6 is a view of the device as used in the construction of the wall. Fig. 7, Fig. 8, and Fig. 9 are detail views of the device last mentioned. Fig. 10 and Fig. 11 are detail views of the furring and the method of securing the same by means of slots and bending. The construction shown in Fig. 6 may also be used as a partition as well as a sustaining-wall.

In the figures, 1 represents an I-beam, girder, or other horizontal support. 2 is a stringer resting thereon, having a shoe 2' set at right angles thereto and terminating in a bent portion or clamp 3, Fig. 1 and Fig. 2, the said stringer 2 having a longitudinal aperture or slot 4, in one end of which is a tongue 5 bent to receive and retain a stay 6 through a hole 7. A dependent strip 8 has inclined openings 9, into which is set a brace or stay 10, the point 11 being turned or bent

to retain said brace 10 in position, also a shoulder or notch 12 to prevent lateral movement.

In Fig. 1 and Fig. 2 the manner of using wire for connecting the stringer 2 and the strip 8 as a means for bracing the same is shown. Fig. 7 represents a modification of the stringer (seen in Fig. 1) to adapt the same to wall construction. In Fig. 3 the stringer to be secured to an I-beam is shown prepared by cutting for bending, such bending to be done on the dotted line designated 3', the part marked 2' being bent up, as shown in Fig. 4, and the part designated 3 being bent downward on the line opposite the numeral 3 in Fig. 3 and, as shown in Fig. 5, forming the clamp there marked 3. But one end of the stringer 2 is shown in Fig. 1, the other end (not exposed) being identical with the part shown, all of the figures shown constituting broken views of the parts represented, and the plurality of the parts and apertures represented may be increased or diminished and their size varied to suit the size and extent of the construction of the building. Figs. 1 to 5, inclusive, show the manner of fireproofing in the construction of floors and ceilings, and Figs. 6 to 9, inclusive, fireproofing in the construction of walls.

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

1. In a fireproof construction for buildings in combination with an I-beam a slotted top member having an inwardly-projecting tongue and an end bent portion, and a bottom member having an angular notch, a cross-stay in engagement with the tongue of said top member, a cross-support secured in said angular notch, and means securing said top member to said bottom member.

2. A fireproof construction for buildings comprising plates for use in a horizontal position said plates having a plurality of longitudinal apertures with tongues projecting therein and having end bent portions for securing the same to the heads of I-beams, cross-stays having central slots for engaging said tongues, strips for contact with the bases of said beams constituting furring and

having angular slots, the lower side of each slot terminating in a point adapted to be turned up, cross-stays having transverse slots in one of the side edges thereof for engaging said strips and means for securing said strips to said plates, substantially as described.

In testimony whereof I affix my signature, in presence of two witnesses, May 24, 1905.

TIMOTHY D. LYNCH.

Witnesses:

PETER J. LYNCH,  
L. SONNTAG.