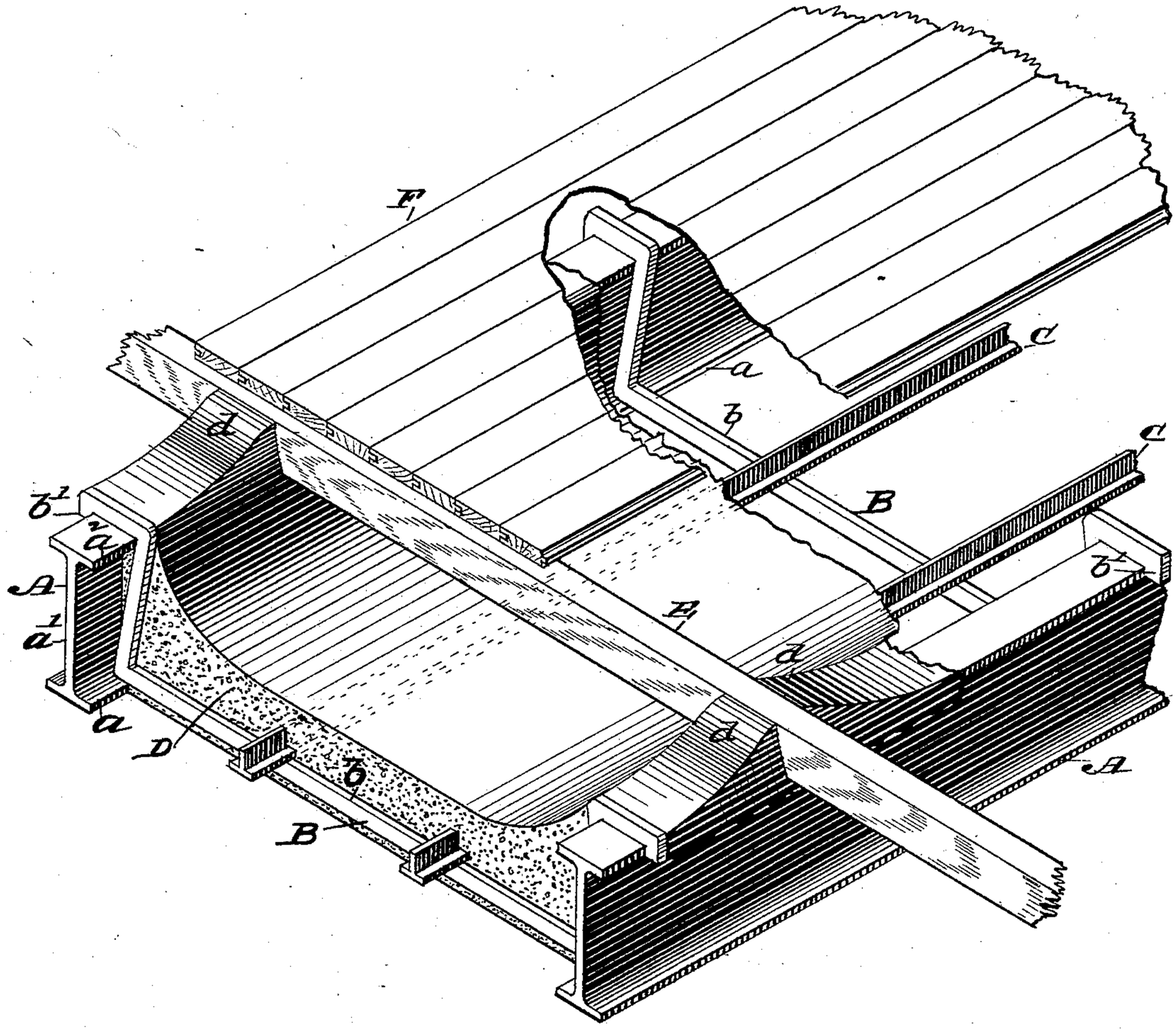
(No Model.)

# J. JAMETON.

## FIRE PROOF FLOOR.

No. 361,361. Patented Apr. 19, 1887.




Witnesses:
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# UNITED STATES PATENT OFFICE.

JEAN JAMETON, OF ST. LOUIS, MISSOURI.

## FIRE-PROOF FLOOR.

SPECIFICATION forming part of Letters Patent No. 361,361, dated April 19, 1887.

Application filed August 23, 1886. Serial No. 211,612. (No model.)

*To all whom it may concern:*

Be it known that I, JEAN JAMETON, of St. Louis, Missouri, have made a new and useful Improvement in Fire-Proof Floors, of which the following is a full, clear, and exact description.

The leading feature of my improved floor is the brace-hooks used between the main beams, serving both to brace and tie the main beams, and also to support concrete, earthy matter, or other fire-proof material between the main beams, as well as any auxiliary bars, strips, or pieces employed to more effectually hold in place the fire-proof material.

In the annexed drawing, making part of this specification and illustrating the most desirable mode of carrying out the improvement, a portion of a floor embodying the improvement is exhibited in perspective, parts being broken away to exhibit more clearly the interior of the construction.

A A represent the main beams of the floor. They are constructed and are arranged in the ordinary manner.

B B represent the brace-hooks. They are shaped and attached to the main beams as follows: The middle portion, *b*, of the hook extends between the main beams, at each end resting upon the lower flange, *a*, of the beam, and preferably against the web *a'* of the beam. The bar constituting the hook is then extended from its resting place upon the beam-flange *a* upward against the top flange, $a^2$, of the beam, thence over, and preferably so as to bear upon, the top of the beam, and at its extreme end it is turned down to form a point, *b'*, which catches against the farther side of the top of the beam—that is, it is desirable for the hook to come to a bearing both upon the lower flange and also upon the top of the beam. I, however, desire not to be particularly restricted to such a construction, it being possible to carry out the improvement in a measure by allowing the hook to bear at each of its ends upon a single one only of the underneath bearings named.

The hooks are in practice placed about four feet apart upon the beams; and as it is customary in floors having beams A, such as here shown, to space the beams some four or five feet apart, I prefer to employ the longitudinal bars C in connection with the hooks, as thereby the fire-proof material D is better held in position. The bars C are arranged crosswise upon the hooks, and are held in place by resting them upon the hooks and inclosing them in the fire-proof material, which should also be extended to inclose the hooks beneath, substantially as is represented.

The material D is preferably, to lighten the floor, not filled in to the level of the top of the beams A, saying that I consider it a desirable practice to carry it well up to such level in the immediate vicinity of the beam, and also to extend it over the beam, as at *d*, to form shoulders for the sleepers E, used to support the flooring-boards F, substantially as shown.

In addition to being a fire-proof construction, the present floor has superior strength and elasticity—qualities much needed in large buildings, in which a sudden shock frequently causes a slight movement of the columns and walls as hitherto constructed, resulting in cracks, but which in buildings embodying the present improvement are largely obviated.

I am aware that heretofore a hook has been provided in devices of this sort which has its vertical bearing exclusively upon the top of the beam.

I claim—

1. In a floor, the brace-hooks B, in combination with the main beams, as and for the purpose described.

2. The combination of the beams, the hooks B, and the fire-proof material, substantially as described.

3. The combination of the beams, the hooks B, the longitudinal bars, and the fire-proof material, substantially as described.

Witness my hand.

JEAN JAMETON.

Witnesses:

C. D. MOODY,

J. W. HOKE.