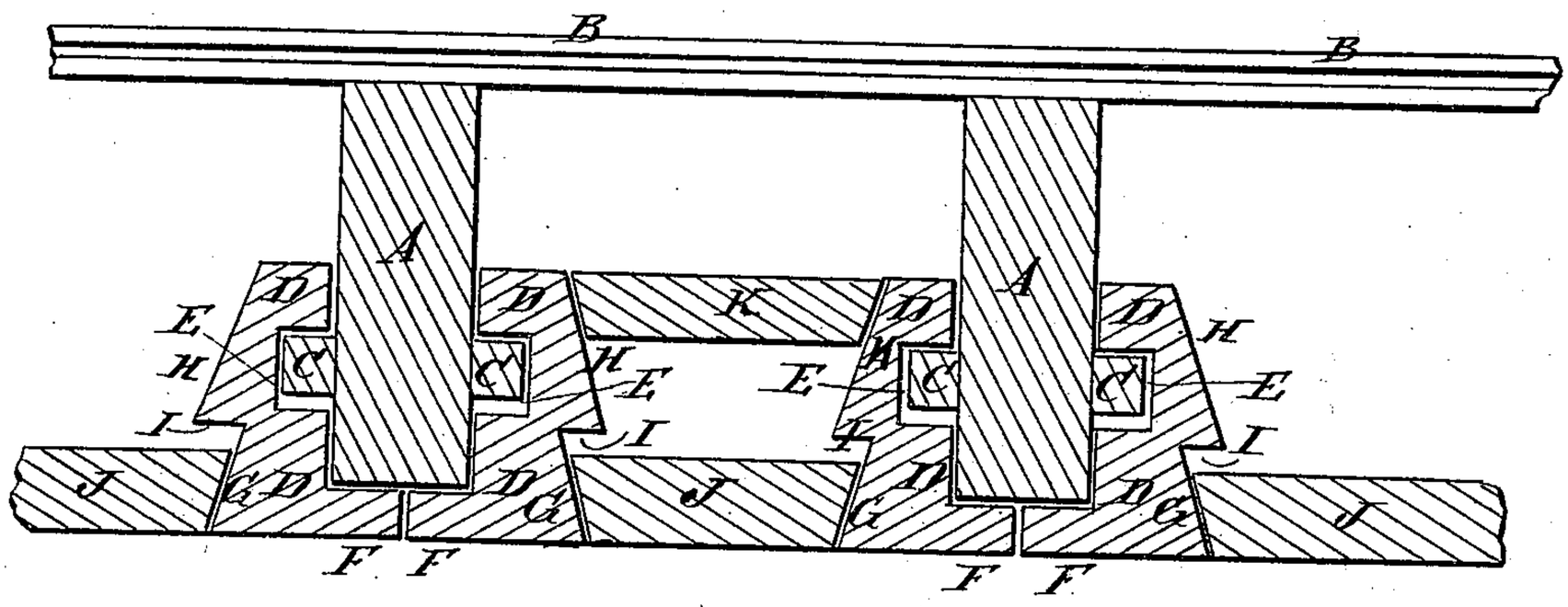
(No Model.)

D. O'CONNOR.

FIRE PROOF ATTACHMENT FOR WOODEN BEAM CEILINGS.

No. 350,267. Patented Oct. 5, 1886.



WITNESSES:

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DENNIS O'CONNOR, OF NEW YORK, N. Y.

FIRE-PROOF ATTACHMENT FOR WOODEN-BEAM CEILINGS.

SPECIFICATION forming part of Letters Patent No. 350,267, dated October 5, 1886.

Application filed March 26, 1886. Serial No. 196,661. (No model.)

To all whom it may concern:

Be it known that I, DENNIS O'CONNOR, of the city, county, and State of New York, have invented a new and useful Improvement in Fire-Proof Attachments for Wooden-Beam Ceilings, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawing, forming a part of this specification, in which a sectional elevation of my improvement and the wooden beams to which it is applied are shown.

The object of this invention is to provide fire-proof attachments for wooden-beam ceilings, by the use of which a fire in a lower story will be prevented from making its way to the story above.

The invention consists in the construction and combination of the various parts of the attachment, as will be hereinafter fully described.

A represents the wooden floor-beams of a building, to the tops of which are attached the floor-plank B.

To the sides of the lower parts of the beams A are attached bars C, from which are suspended the blocks D, of baked clay or other suitable material.

In the upper parts of the inner sides of the blocks D are formed grooves E, to receive the supporting-bars C, and upon the lower edges of the said inner sides are formed flanges F, which project below the lower edges of the beams A, and are made of such a width as to extend to the centers of the said lower edges, so that the flanges F of the blocks D upon the opposite sides of the beams A will meet, and thus cover and protect the said lower edges of the beams.

Upon the upper and lower parts of the blocks D are formed inclines G H, between the adjacent edges of which are horizontal shoulders I.

Between the lower inclines, G, of the adjacent blocks D are placed keys J, of the same material as the said blocks, and the edges of which are beveled to correspond with and fit upon the said inclines G, so that the said keys will be firmly supported. In case the keys J are thinner than the height of the inclines G, the space between the said keys and the shoulders I can be filled with plaster to prevent the said keys from being raised by an upward pressure. When additional protection is desired, keys K can be placed between the upper inclines, H, as shown in the drawing, but generally the keys K will not be required. With this construction the ceiling will not require to be lathed and plastered, but the coating of hard finish can be applied directly to the lower surface of the blocks D and keys J. By this improvement wooden-beam ceilings can be made fire-proof at a trifling expense, the fire-proof attachments costing but little more than the lath and plaster of an ordinary ceiling.

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

1. A fire-proof attachment for wooden-beam ceilings, consisting of blocks D, provided with grooves E to receive supporting-bars, bottom flanges, F, to overlap the lower edges of the beams, inclines G, and shoulders I at the upper ends of the inclines, and the interposed keys J, having beveled edges, substantially as herein shown and described.

2. A fire-proof attachment for wooden-beam ceilings, consisting of blocks D, provided with the grooves E, the lower bottom flanges, F, the inclines G H, and the shoulder I between the said inclines and the interposed keys J K, substantially as herein shown and described.

his
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mark

Witnesses:
JAMES T. GRAHAM,
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