

(No Model.)

P. G. HUBERT.  
FIRE PROOF BUILDING.

No. 283,345.

Patented Aug. 14, 1883.

Fig. 1.

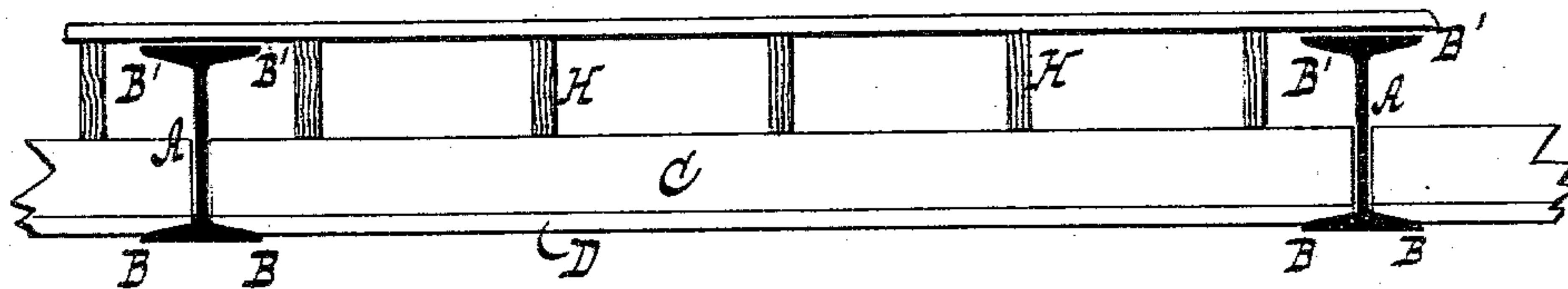


Fig. 2.

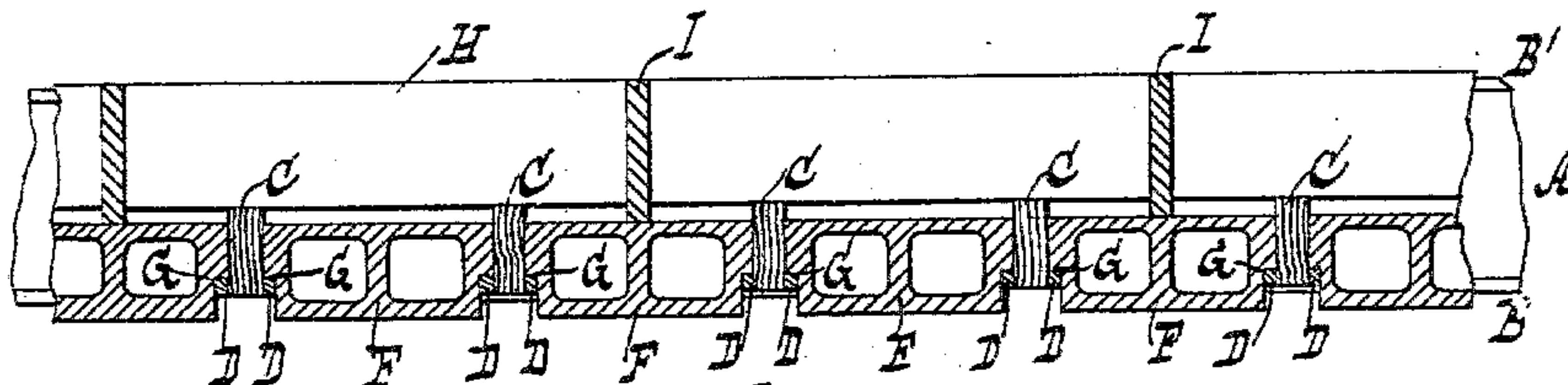
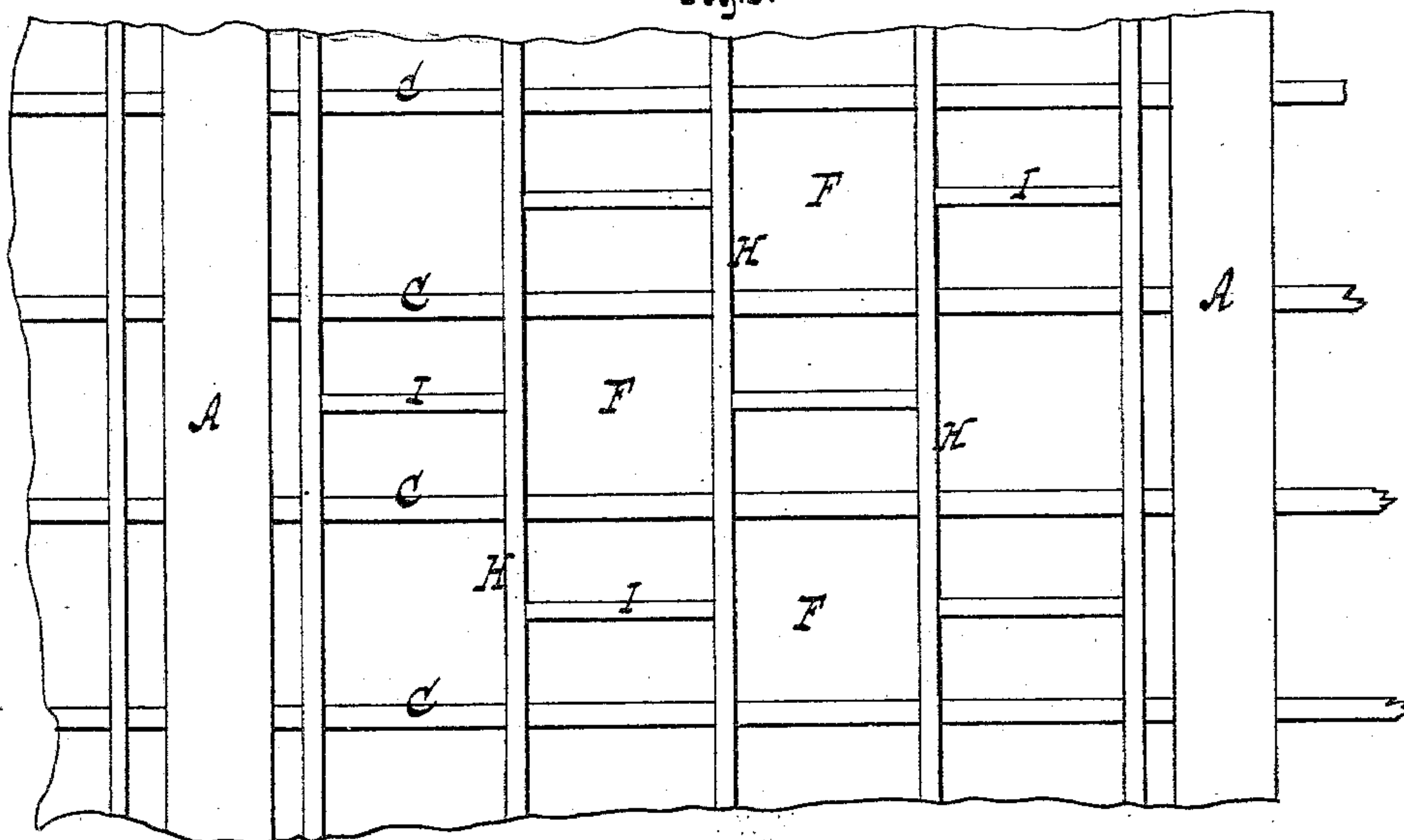


Fig. 3.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## FIRE-PROOF BUILDING.

SPECIFICATION forming part of Letters Patent No. 283,345, dated August 14, 1883.

Application filed May 11, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, PHILIPP G. HUBERT, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Fire-Proof Buildings, of which the following is a specification.

My invention is especially adapted to the floors of buildings.

10 Prior to my invention the floors of buildings have been provided with hollow tiles for the purpose of making the floors fire-proof, and among other ways such tiles have been arranged intermediate of the floor-beams on  
15 suitable ledges thereof; but owing to the frequent inaccuracy in laying the beams, and the ensuing variations in the distances between them, it is difficult to fit the tiles snugly to the beams. To overcome the objection thus  
20 created is the object of my invention, which consists essentially in combining with the floor-beams supplemental beams which rest loosely on the ledges of the floor-beams at right angles thereto, and in turn are provided with ledges  
25 for supporting hollow tiles, so that these supplemental beams can be adjusted to the tiles as they are being laid, and a snug joint may be produced. It also consists in placing floor-  
30 attaching strips upon the supplemental beams with cement partitions at intervals between them, as hereinafter more fully set forth.

This invention is illustrated in the accompanying drawings, in which—

35 Figure 1 represents a cross-section. Fig. 2 is a longitudinal section. Fig. 3 is a plan or top view.

Similar letters indicate corresponding parts.

40 The letter A designates the floor-beams, which in this example are cast of metal and provided with flanges B B' on both their lower and upper edges, the lower flanges constituting ledges for supporting the supplemental beams. Said floor-beams, however,  
45 ledges B are formed by cleats fastened to the beams at the required points.

50 C denotes the supplemental beams resting loosely on the ledges B of the floor-beams, substantially at right angles thereto, and each having ledges D on the lower edge. These supplemental beams C are composed of wood, and their ledges D are formed by suitable

cleats, or said beams may be composed of metal.

F indicates hollow tiles, which are provided, 55 respectively, with shoulders G at the proper points for resting on the ledges D of the supplemental beams, and thereby supporting the same on said beams.

It will be readily perceived that by leaving 60 the supplemental beams C loose or detached from the floor-beams they are adapted to be adjusted to the tiles F, as the latter are put in place, and hence a snug joint may be produced without difficulty between the supplemental 65 beams and the tiles, making a compact floor.

The letter H designates floor-attaching strips resting on the supplemental beams C, and I represents cement partitions intermediate of 70 said strips. When the floor-beams B are composed of metal the attaching strips H are made of a suitable height to extend above the beams, so that the floor-planks may rest on them in the proper manner, said strips being parallel 75 with the floor-beams. The cement partitions I rest on the tiles F, or they may rest on the supplemental beams, and their function is to interrupt the continuity of the passages created between the attaching-strips, to which end 80 they are arranged at such intervals as circumstances or the views of the builder may dictate.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a fire-proof building, the combination 85 of the floor-beams A, having ledges B, the hollow tiles having shoulders G, and the supplemental beams C, arranged at right angles to the beams A, and having ledges D, the whole adapted to serve, substantially as and 90 for the purposes described.

2. The combination, substantially as hereinbefore set forth, with the floor-beams, the supplemental beams and the hollow tiles, of the floor-attaching strips resting on the sup- 95 supplemental beams, and the cement partitions arranged at intervals between said strips.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

PHILIPP G. HUBERT. [L. S.]

Witnesses:

CHAS. WAHLERS,  
WILLIAM MILLER.