

J. W. HOYT.
FIRE-PROOF FLOORS.

No. 173,470.

Patented Feb. 15, 1876.

Fig: 1.

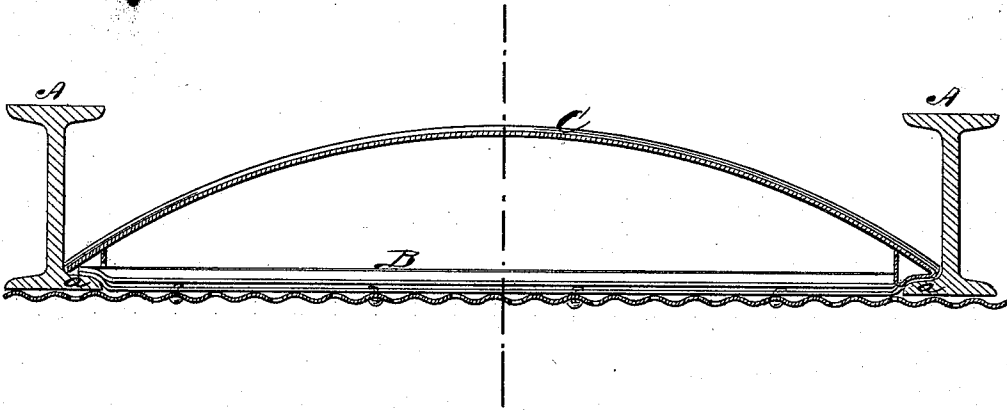
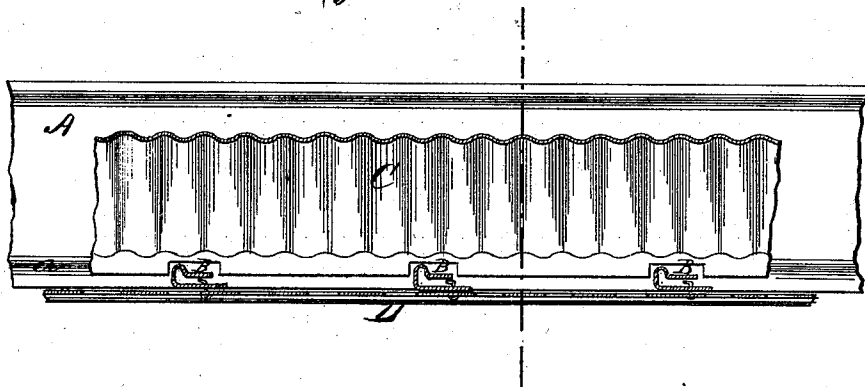


Fig: 2.



Witnesses:

St. L. Mattenborg

W. L. Mill

Inventor:

John W. Hoyt

per [Signature]

UNITED STATES PATENT OFFICE.

JOHN W. HOYT, OF SPRINGFIELD, MASSACHUSETTS.

IMPROVEMENT IN FIRE-PROOF FLOORS.

Specification forming part of Letters Patent No. **173,470**, dated February 15, 1876; application filed February 1, 1875.

To all whom it may concern:

Be it known that I, JOHN W. HOYT, of Springfield, in the county of Hampden and State of Massachusetts, have invented a new and Improved Iron Flooring; and that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

This invention is in the nature of an improvement in iron floors; and the invention consists in an iron floor constructed with iron beams, combined with an iron arch, iron furring, and lathing, substantially as hereinafter shown and described.

In the accompanying sheet of drawings, Figure 1 is a longitudinal section of my floor; and Fig. 2, a side view of same, partly in section.

Similar letters of reference indicate like parts in the two figures.

A A represent the beams of my flooring. These beams should be of iron, and may be of any desired size and form; but it is essential that they be constructed with flanges *a a*, or their equivalents, on their lower edges. Secured to these flanges or otherwise, in any suitable manner, are metallic furrings B B. These furrings may be made from angle-iron, or any other suitable form of iron, and they extend across from beam to beam. On their under side, springing between each pair of beams, is

an arch of metal, C. The lower edges of the metal composing this arch rest upon the flanges or otherwise at the bottom of the beams, to which it may be secured in any way desired. To the under side of the furring B is affixed the iron lathing D. This lathing may be secured in any way desired, and it may be of any size and form; and the arch C may be either of corrugated iron or flat iron, or iron with a smooth surface, since no claim is made on the particular form or construction of any of the particular parts of the combination before referred to, the invention consisting only in the combination of those parts.

I am aware that fire-proof floors have been made with arches of metal resting on metal beams, and having tension-rods of interwoven wires, which serve the additional purpose of lathing for the ceiling below; but this forms no part of my invention.

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

The combination, in a fire-proof flooring, of beams A, having flanges *a*, metallic furrings B, extending transversely from beam to beam, metallic arches C, springing between said beams, and metallic lathing D, attached to the furrings, all constructed and arranged substantially as shown and described.

JOHN W. HOYT.

Witnesses:

H. L. WATTENBERG,
G. M. PLYMPTON.