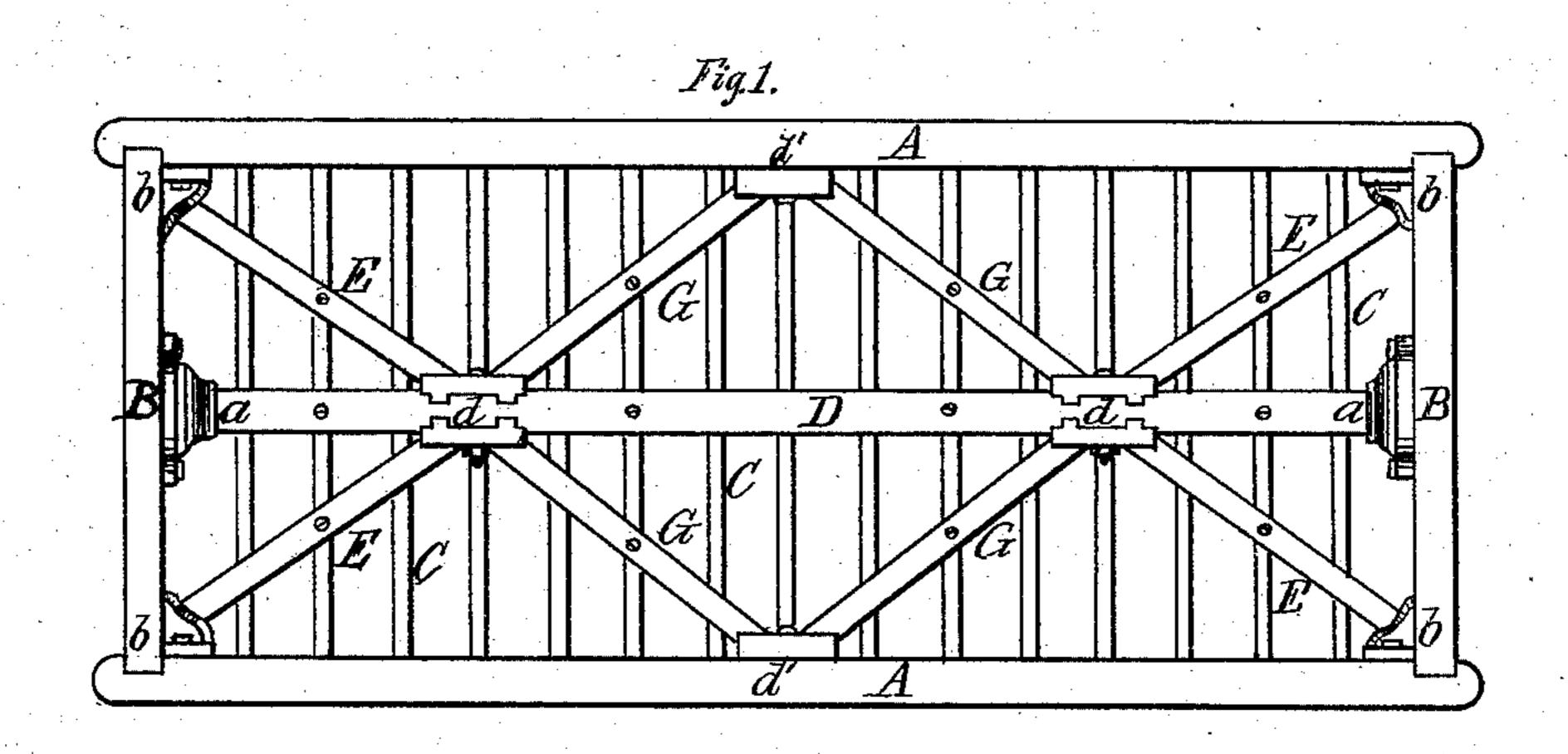
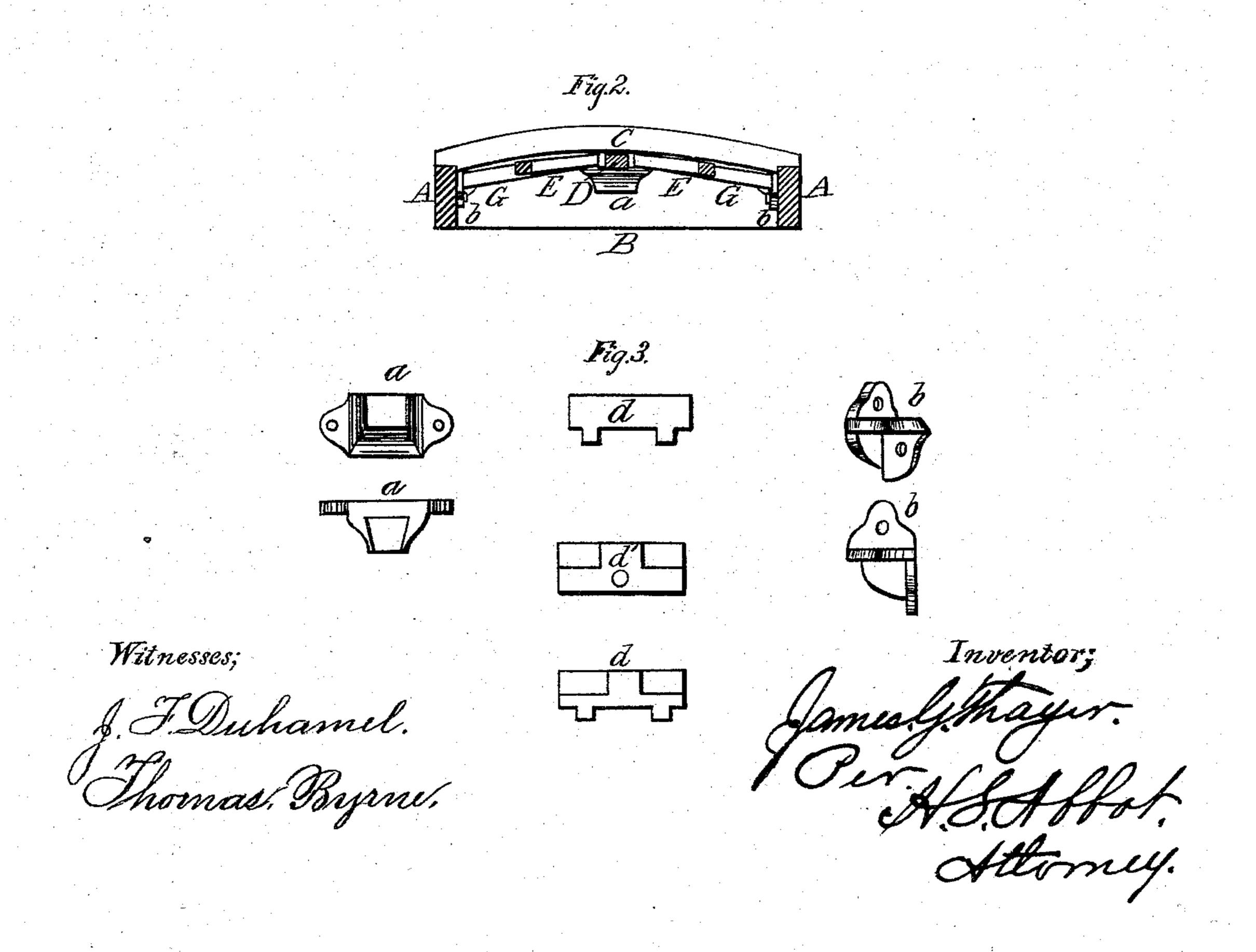
J. G. THAYER. Car-Roofs.

No.156,896.

Patented Nov. 17, 1874.





United States Patent Office.

JAMES G. THAYER, OF ATCHISON, KANSAS.

IMPROVEMENT IN CAR-ROOFS.

Specification forming part of Letters Patent No. 156,896, dated November 17, 1874; application filed October 16, 1874.

To all whom it may concern:

Be it known that I, James G. Thayer, of Atchison, county of Atchison and State of Kansas, have invented certain new and useful Improvements in Roof for Railway-Car, of] which the following is a specification:

The nature of my invention consists in the construction of a car-roof, as will be hereinaf-

ter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which forms a part of this specification, and in which—

Figure 1 is a view of the under side of my improved car-roof. Fig. 2 is a plan view of one end thereof. Fig. 3 shows the various castings used in the construction of my car-roof.

A A represent the side plates, and B B the end plates, of the roof-frame. C C represent the arched cross-beams secured on the side plates A A. D represents a beam running longitudinally through the center against the under sides of the arches C C. The ends of the beam D are dovetailed into cast-iron blocks a a, fastened to the inner sides of the end plates B B by bolts or screws, by which means the ends of the car are kept from being forced out. In each corner of the roof-frame AB is a casting, b, fastened by one bolt into the side plate A, and one bolt into the end plate B, which castings add considerable strength to the corners. A brace, E, runs from each corner cast-

ing b to a casting, d, on the center beam D, one-fourth the length of the car. From a similar casting on the other side of the center beam a brace, G, runs to the center of the side plate A, these braces thus forming a direct brace from each corner to the center on the opposite side. Another casting, d', is fastened in the center, on the inner side of each side plate A, in which casting the ends of the braces G G are placed. This form of bracing is adapted to any style of car-roof, though especially designed for the roof known as the Winslow roof.

In place of having separate braces E and G, rods may be used running one from each corner casting b to the casting on the center beam D, and to the casting on the side plate of the same side, by constructing the castings on the center beam in such a manner that the rods

can pass through them.

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

In combination with a car-roof frame, A B, the longitudinal center beam D, diagonal braces E E and G G, and the castings a b d, all substantially as and for the purposes set forth.

In testimony that I claim the foregoing as my invention I hereunto affix my signature this 10th day of October, 1874.

JAMES G. THAYER.

Witnesses:

HENRY R. BOSTWICK, CHARLES N. SEIP.