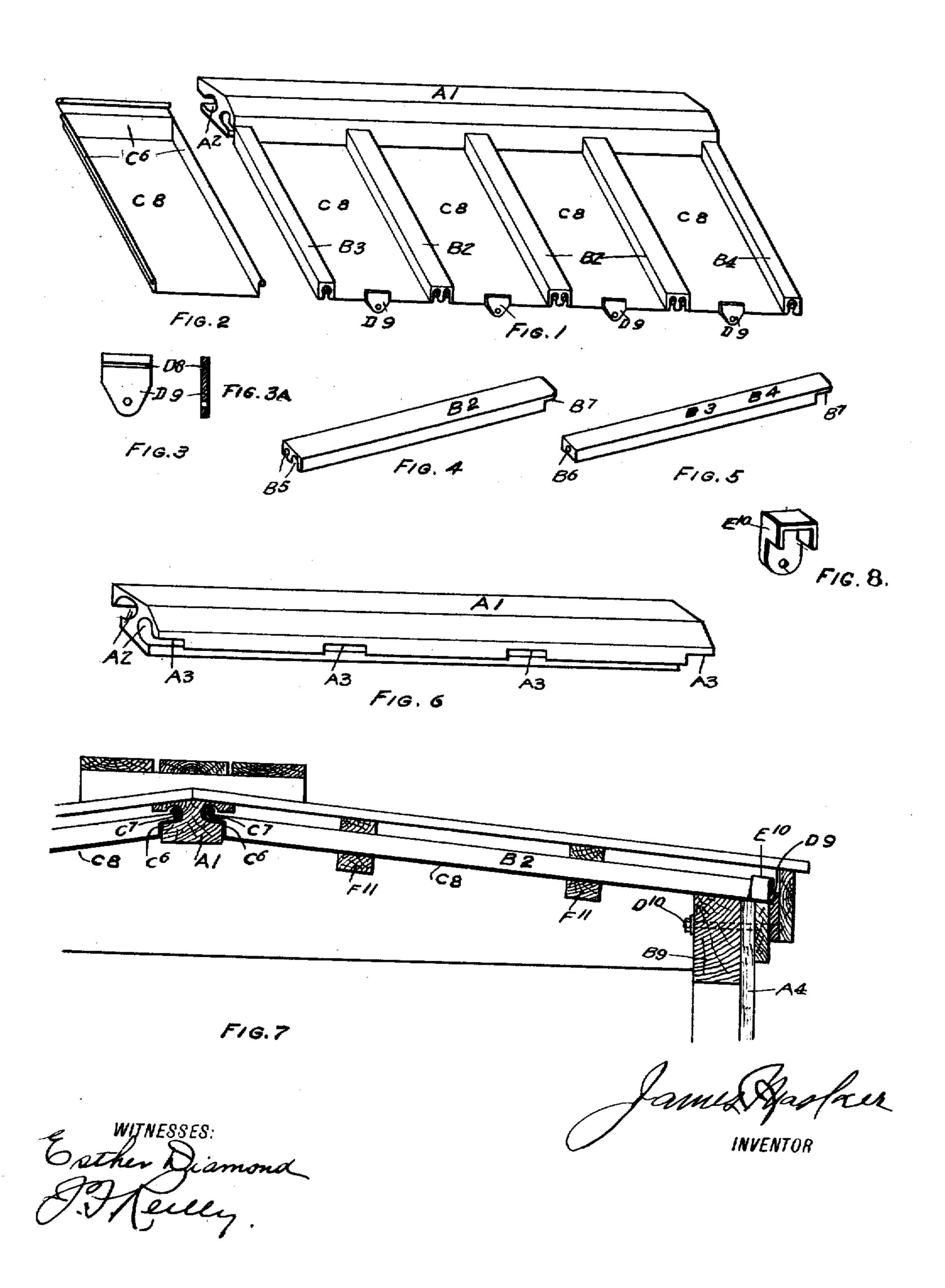
J. MASKER.

CAR ROOF.

APPLICATION FILED APR. 13, 1907. RENEWED DEC. 29, 1908.

913,412.

Patented Feb. 23, 1909.



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UNITED STATES PATENT OFFICE.

JAMES MASKER, OF HAMMOND, INDIANA.

CAR-ROOF.

Specification of Letters Patent.

Patented Feb. 23, 1909.

No. 913,412.

Application filed April 13, 1907, Serial No. 367,946. Renewed December 29, 1908. Seriai No. 469,774.

To all whom it may concern:

useful Improvement in Car-Roofs, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings; forming a part of this 10 specification, and to the model filed here-

with. My invention relates to new and useful improvements in car roofs of that class commonly known as "inside roofs" and particu-

15 larly contemplates the provision of an inside roof constructed for the greater part of metal plates so held by the ridge pole and carlines that they are capable of independent movement to overcome the heavy strain put upon 20 them, while at the same time forming an ab-

solutely water-tight construction.

My invention further and specifically resides in the following features of construction and arrangement as will be hereinafter 25 described with reference to the accompanying drawings, forming a part of this specification, in which like characters are used to designate like parts throughout the several figures, and in which,

Figure 1 is a perspective view of a portion of a roof constructed in accordance with my invention, Fig. 2 is a similar view of one of the metal plates used therein, Figs. 3 and 3ª are respectively a front elevation and a sec-35 tional view of one of the securing elements, Figs. 4 and 5 are similar perspective views of intermediate and end carlines respectively, Fig. 6 is a perspective view of the ridge pole, Fig. 7 is a transverse sectional view through 10 a portion of a completed car roof constructed in accordance with my invention, and Fig. 8 is a perspective view of one of the carline end

caps. In the practical embodiment of my in-45 vention and with particular reference to the drawings, I provide a ridge pole A having longitudinal undercut channels A2 and openings A3 therethrough communicating with said channels. C'indicate a number of rectangular metal plates having three of their sides formed with upstanding flanges C6 having their longitudinal edges curled about metal rods C7 to strengthen the same, and having their abutting short edges soldered ines B2 and B3 and B4 respectively are each | ing reduced ends fitting within said openings sogether. The intermediate and end car-

! formed with reduced ends B7 adapted to fit Be it known that I, James Masker, a citi- snugly within the openings A3 in the ridge zen of the United States, residing at Ham- pole A1. The intermediate carlines B2 are mond, in the county of Lake and State of further formed on the lower face with par- 60 5 Indiana, have invented a certain new and allel channels B5 while the end carlines B3 and B4 are provided on their lower face with a single channel Be, said channels Be and Br being designed to receive loosely therein the longitudinal flanges Co of the metal plates Co 65 arranged between the carlines, the end flange C⁶ of said plates being provided with an angular extension flange 9 having an upwardly curled outer edge bent about a metallic rod C⁷ and adapted to be carried within 70 the channels A2 of the ridge pole A1, to form a closure for the upper ends of the carlines B2 thus forming with said plates, said carlines and said ridge pole a perfectly water-tight structure while permitting the metal plates 75 C⁸ sufficient play to prevent the buckling or bending of the same under the heavy torsional strains imposed upon them.

In the car construction illustrated in Fig. 7, A4 represents the side thereof, B9 repre- 80 sents the sidé beams secured thereto and \mathbf{F}^{n} represents the purlins, upon which the carlines rest. The straight edge of the metal plates C⁸ extends slightly beyond the sides A4 of the car and engages within slots D8 of 85 securing plates D9 bolted through the side A4 and the side beam B9 by bolts D10. Thus the fastening of each element is provided for, securing plates D' bolted through the side A4 and the side beam B7 by bolts D11. Thus 90 the fastening of each element is provided for, the outer ends of the carlines being covered by caps E10 fitting thereover and bolted or otherwise secured to the sides A4 of the car.

From the foregoing description it will be 95 seen that I provide a construction in which the main elements are securely, though movably held in their relative positions in such manner as to allow of sufficient movement to prevent the buckling and bending of the 100 metal plates under the strain put upon them by the pitching of the moving car and to allow the same to remain in their normal water-tight engagement.

Having thus described my invention, I 105

claim:

In an inner car roof of the character described, the combination with a ridge pole having longitudinal undercut channels, and openings therethrough communicating with 110 said channels, of a plurality of carlines havand having longitudinal channels therein, a plurality of metallic roof plates having upstanding flanges on both sides and the upper end thereof, said end flange having an angular extension flange provided with an upwardly curled edge and adapted to lie within the said undercut channels of the ridge pole to form closures for the upper ends of the said carlines, and means to secure the outer ends

of said carlines and said plates, substantially 10 as described.

In witness whereof I hereunto affix my signature in presence of two witnesses this 8th day of April, 1907.

JAMES MASKER.

Witnesses:

ESTHER DIAMOND, J. F. REILLY.