

(No Model.)

J. C. WANDS.
CAR ROOF.

No. 503,886.

Patented Aug. 22, 1893.

Fig. I

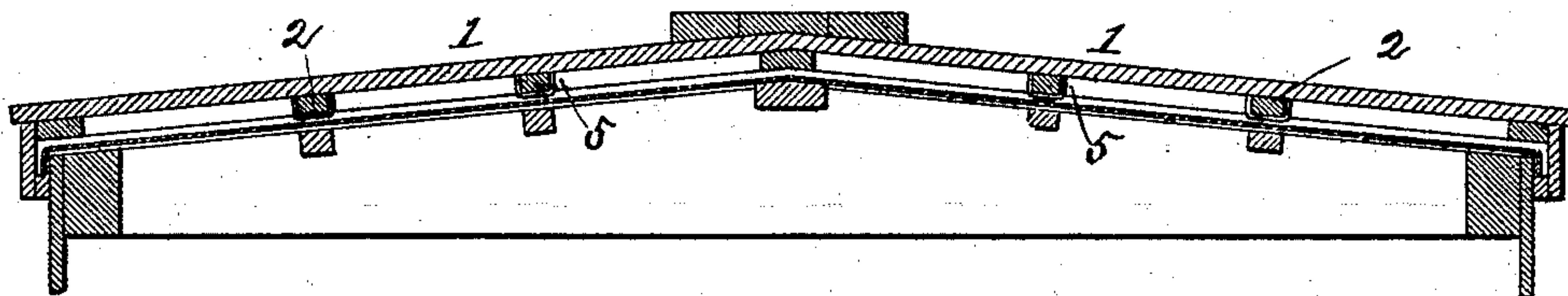


Fig. II

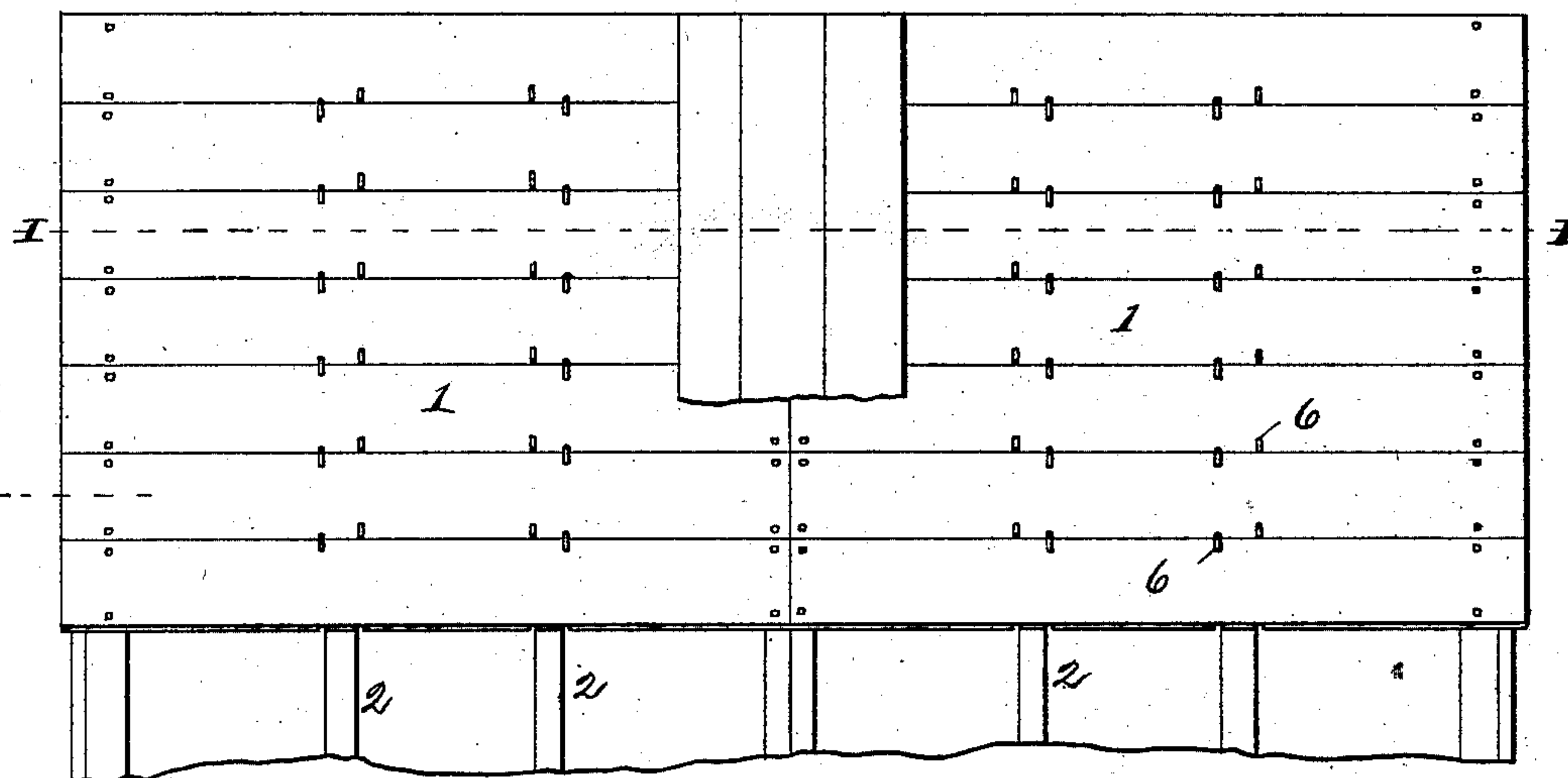


Fig. III.

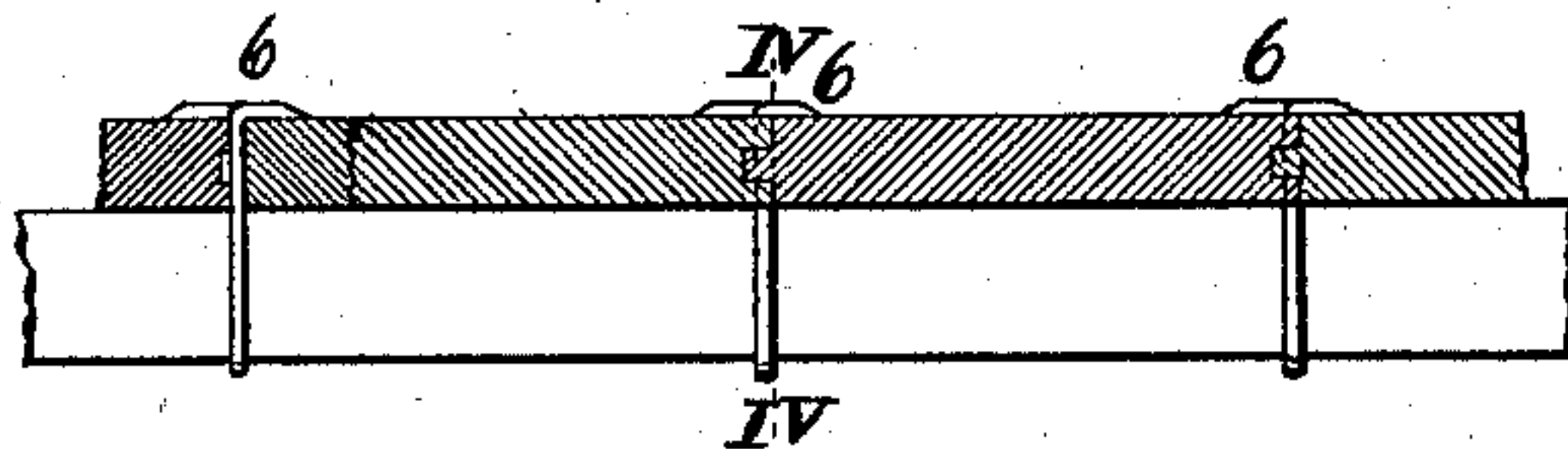


Fig. IV.

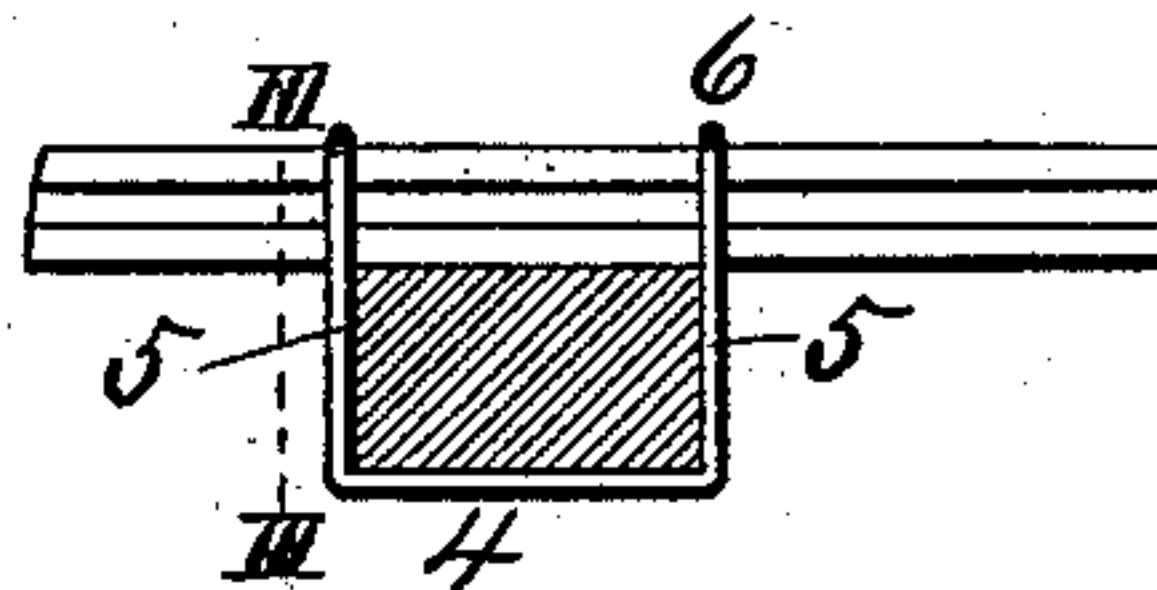
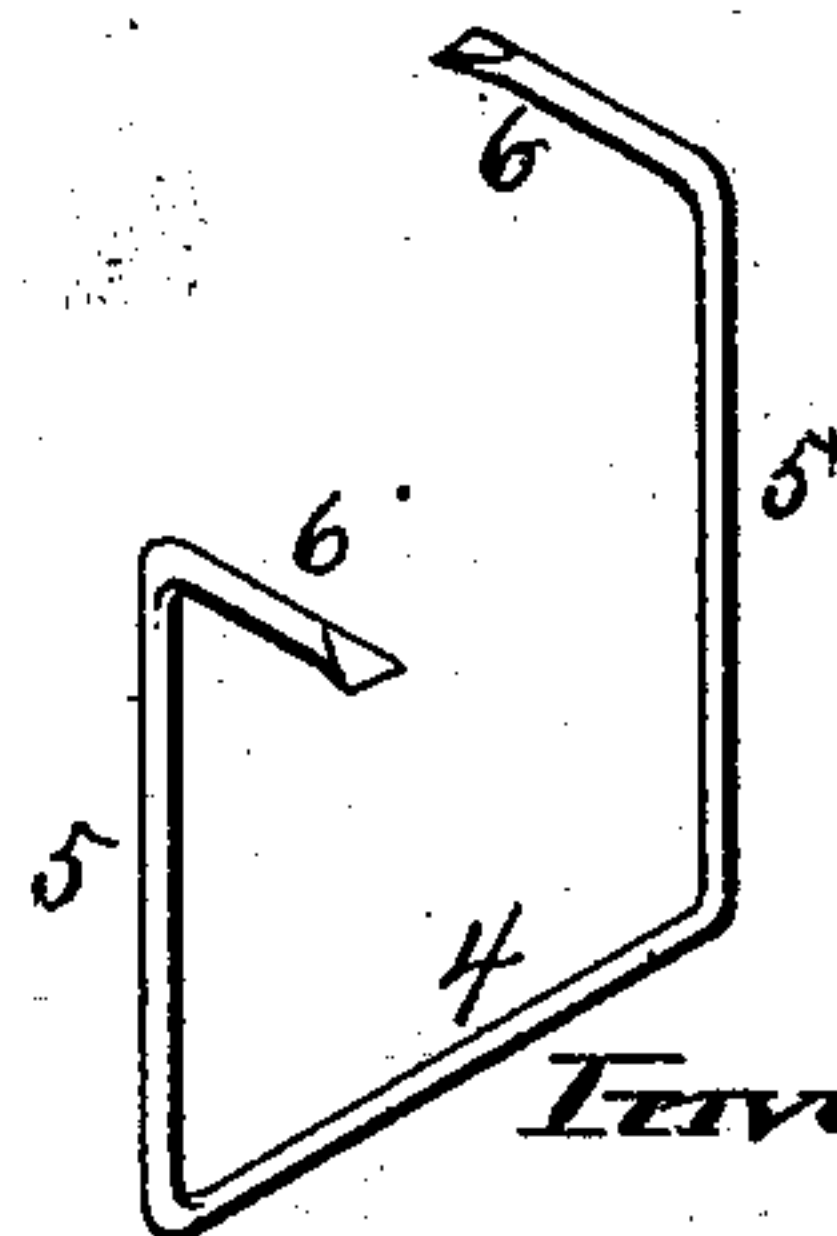


Fig. V.



Attest:

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UNITED STATES PATENT OFFICE.

JOHN C. WANDS, OF ST. LOUIS, MISSOURI.

CAR-ROOF.

SPECIFICATION forming part of Letters Patent No. 503,886, dated August 22, 1893.

Application filed February 23, 1893. Serial No. 463,352. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. WANDS, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Car-Roofs, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a means for securing the boards to the roof; and my invention consists in features of novelty hereinafter fully described and pointed out in the claim.

Figure I is a vertical, transverse section of a car roof, taken on line I—I, Fig. II. Fig. II is a detail top view. Fig. III is an enlarged, vertical, longitudinal section, taken on line III—III, Fig. IV. Fig. IV is a vertical, transverse section, taken on line IV—IV, Fig. III; the parts beneath the purlins not being shown either in Figs. III or IV. Fig. V is a perspective view of my preferred form of fastener.

Referring to the drawings, 1 represents the roof-boards of a freight car, and 2 the purlins upon which the boards are placed.

My invention relates particularly to a fastener for securing the boards to the purlins.

The fastener consists of a U-shaped piece of metal, composed of a horizontal bar 4, which passes underneath the purlins, vertical bars 5 which project upward on either side of the purlins, and horizontal end portions 6, the ends 6 being preferably extended in opposite directions, as shown in Fig. V

so as to hold different but adjacent roof boards.

These fasteners fit the purlins, as shown in Figs. III and IV, and are passed through the adjacent edges of the boards, as shown in Fig. II. Their ends 6 engage over the boards, as shown, and hold the boards firmly on the purlins.

By the use of my improved fastener, the boards are held to the purlins without the use of nails, (except at the ridge and eaves of the roof, where nails may be used, if desired,) thus preventing the danger of splitting the boards, and holding them in place much firmer than nails do, for the reason that the latter are liable to work loose under the motion of the car body.

I claim as my invention—

The combination of a car roof composed of adjacent roof boards and purlins, with a fastener for the same, formed of a U-shaped rod or wire having vertical sides 5 projecting on either side of the purlins and through the meeting edges of said boards, a bottom portion 4 connecting the sides 5 and passing under the purlin, and the ends 6 turned in opposite directions to embrace and hold different but adjacent roof boards, substantially as described.

JOHN C. WANDS.

In presence of—

ALBERT M. EBERSOLE,
E. S. KNIGHT.