

J. GARRY.

Car Roof.

No. 108,130.

Patented Oct. 11, 1870.

Fig. 1

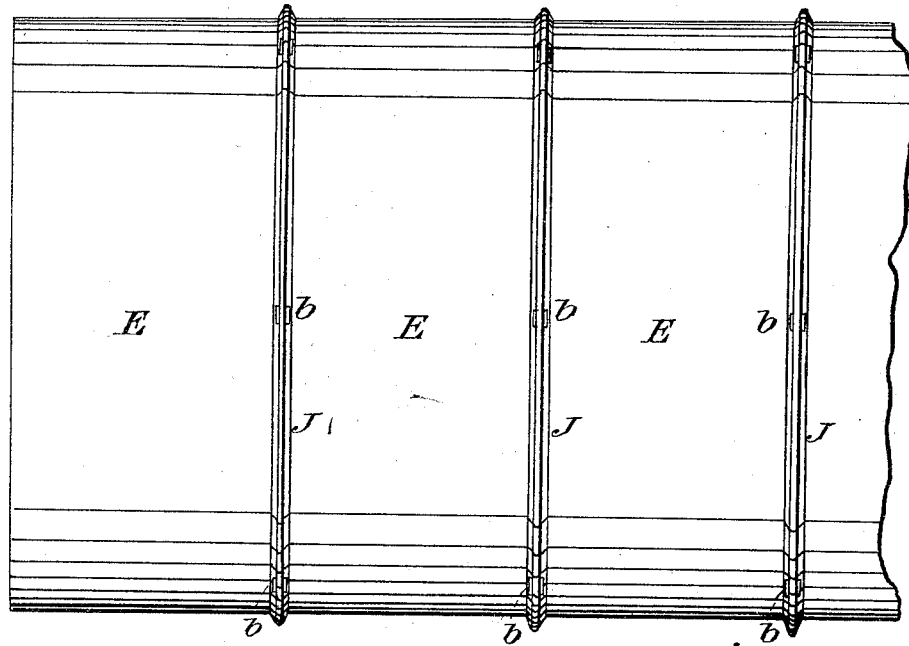


Fig. 2

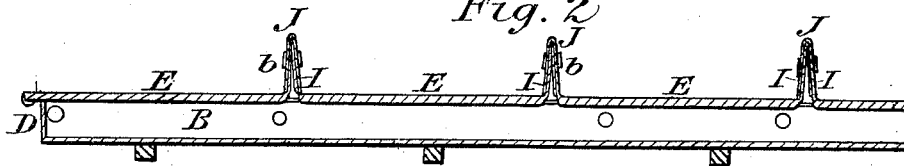


Fig. 3

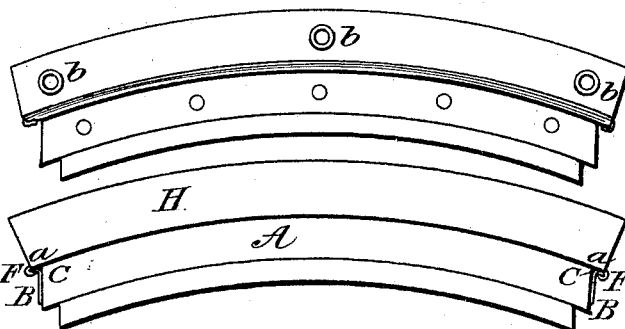
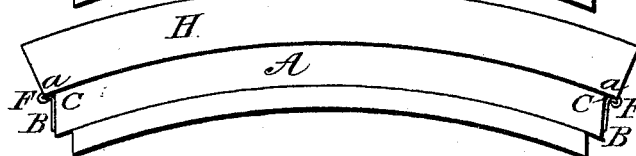


Fig. 4



Witnesses:

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# United States Patent Office.

JOHN GARRY, OF CLEVELAND, OHIO.

Letters Patent No. 108,130, dated October 11, 1870.

## IMPROVEMENT IN CAR-ROOFS.

The Schedule referred to in these Letters Patent and making part of the same

Be it known that I, JOHN GARRY, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Car-Roofing, of which the following is a description.

Figure 1 is a top view of the car-roofing.

Figure 2, a view of the eaves.

Figures 3 and 4 are end views.

Like letters of reference refer to like parts in the different views.

The nature of this invention relates to the manner of attaching sheet metal to car-roofs, so that said sheets shall be neatly and firmly connected thereto by means of certain flanges secured to the eaves and ends of the roof to which the edges of the sheets are locked, substantially as hereinafter described.

In the drawing, fig. 4—

A represents the uncovered end of a car-roof, which is constructed of wood, in the ordinary way and of the usual shape, along the eaves of which is secured a strip of metal, B, fig. 2, having its upper edge turned outwardly at an angle forming a projecting flange, C, fig. 4, which represents an end view of the strips referred to.

To the ends of the roof is also secured a similar strip, D, fig. 2, having a projecting flange in like manner, to which, and to the strips along the eaves, the sheets of roofing E, fig. 1, are attached, as follows:

The several sheets to be laid upon the roof are cut of a length a little more than that of the width of the roof, so that the ends of the roofing or sheets may extend beyond the edge of the projecting flange of the strips B.

The extending ends of the sheets are then turned down under the flange which it embraces, forming a lock-joint, as shown at *a*, fig. 4.

It will be obvious that by this means the sheets are held closely down upon the roof without nails or other fastenings in a strong and durable manner.

The sheets are secured in like manner to the ends of the roof, a strip, H, fig. 3, and flange, being nailed thereto, and the edge of the roofing turned under, the

flange embracing and forming a lock substantially the same.

The several sheets composing the roofing are connected to each other by a wide upturned flange, I, which are approximated and thus secured by a cap, J, placed on over the two upturned flanges, thereby locking them securely together, and excluding the rain and snow from between them.

The cap is secured to the flanges by eyelets *b*, inserted in holes punched through the cap and flanges, thereby riveting the flanges together in a neat, easy, and durable manner.

It will be observed that the flanges do not touch each other at their base or angle, but only at the top. The open space between the flanges allows the sheets to contract and expand, as they may be affected by the vicissitudes of the weather; hence no injurious strain can be exerted upon them to cause them to wrinkle and tear loose from their fastenings. Roofing thus attached to the roof can be removed therefrom entire by unlocking the lap from the flange of one end and then sliding the connected sheets endwise from the roof, or one section or more may be removed singly, without disturbing the rest, by unlocking the lap from the flange at the eaves, and removing the eyelets and cap. This being done, a section can be drawn transversely from the roof without injuring or disturbing those on either side.

### Claim.

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

The strip B, provided with a flange, C, in combination with the sheets E, having an under lap, F, embracing the flange C, forming a lock-joint, in the manner substantially as described and for the purpose set forth.

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Witnesses:

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