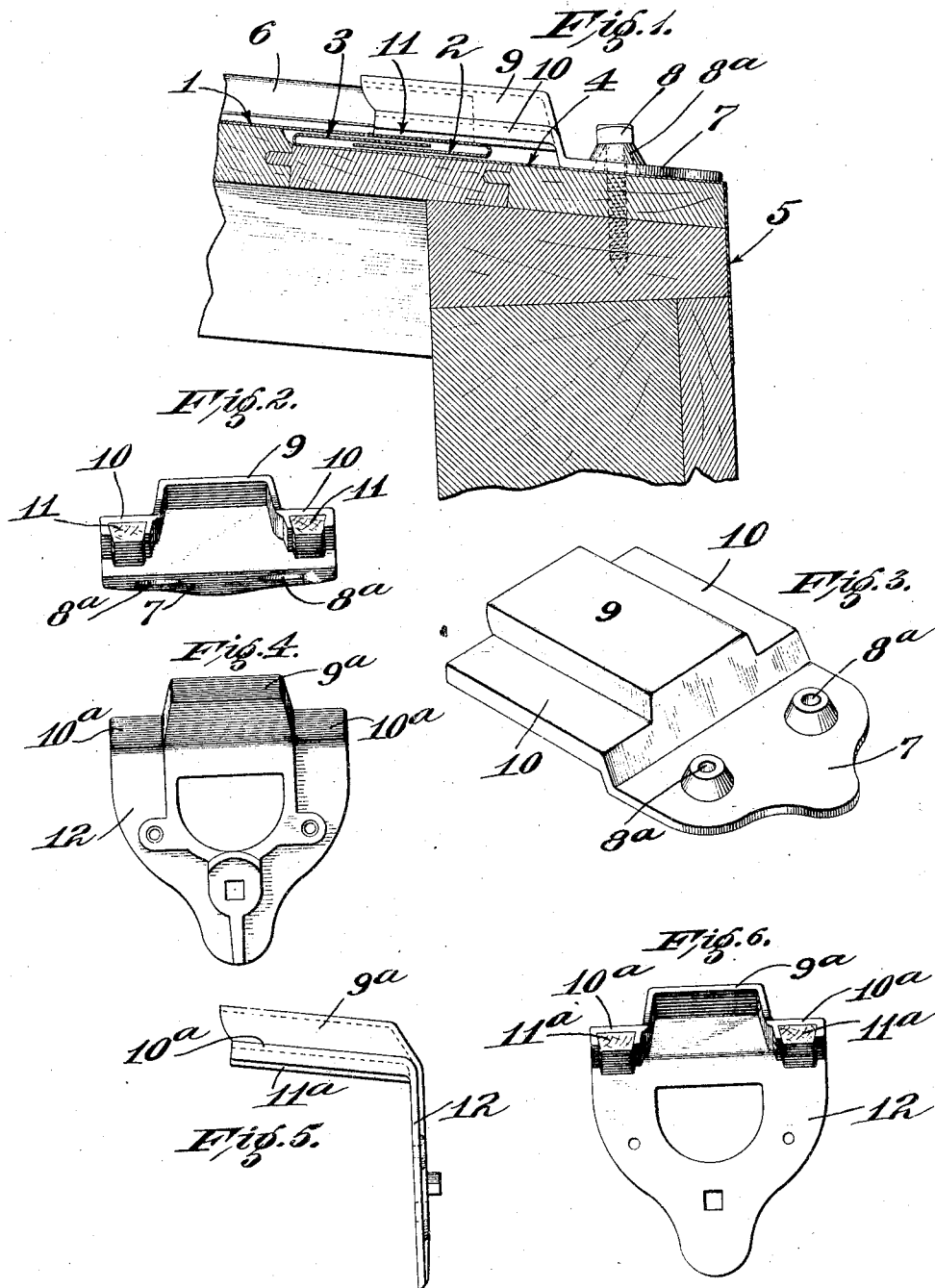


C. C. MURPHY.
RETAINING CLIP FOR CAR ROOFS.
APPLICATION FILED AUG. 9, 1912.

Patented Mar. 25, 1913.

1,057,080.



Witnesses:

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UNITED STATES PATENT OFFICE.

CLINTON C. MURPHY, OF CHICAGO, ILLINOIS.

RETAINING-CLIP FOR CAR-ROOFS.

1,057,080.

Specification of Letters Patent.

Patented Mar. 25, 1913.

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To all whom it may concern:

Be it known that I, CLINTON C. MURPHY, a citizen of the United States, and a resident of the city of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Retaining-Clips for Car-Roofs, of which the following is a specification.

This invention relates to clips or hood members such as are provided to retain the metal roofing sheets of car roofs of the outside type in place.

It has for its principal objects to prevent the abrasion and rubbing off of the galvanizing of the roofing sheets and consequent destruction of the same, and to attain certain advantages as will hereinafter more fully appear. The rubbing of the roofing sheets in contact with the metal retaining clips or hood castings causes the galvanizing to wear off the sheets so that they soon rust and rot from the action of the elements and go in holes in the region of the clips or hood castings.

The invention, therefore, consists in providing the clips or castings with attached or inserted wear or rubbing pieces of wood, pressed fiber or other suitable non-abrasive material at the places where the rubbing action occurs.

The invention further consists in the parts and in the arrangements and combinations of parts hereinafter described and claimed.

In the accompanying drawing which forms part of this specification and wherein like symbols refer to like parts wherever they occur,—Figure 1 is a fragmentary transverse vertical section of a car roof adjacent to the eaves, showing a hood casting embodying the invention applied in the region of the seam; Fig. 2 is an end view of the hood casting shown in Fig. 1; Fig. 3 is a perspective view of said hood casting; and Figs. 4, 5 and 6 are views illustrating a modification of the hood casting.

In the drawings, the roof sheets 1 are turned under adjacent to the eaves as at 2, so as to cooperate with the turned over inner marginal portion 3 of the flashing 4 whose outer marginal portion is turned down and secured to the side of the car as at 5. The roof sheets are provided with the usual re-entrant interlocking upstanding side seams 6.

Referring now more particularly to the structure shown in Figs. 1 to 3, inclusive, the

hood casting comprises a flat base portion 7 which is secured to the roof by lag screws 8 passing through upwardly flanged perforations 8^a in said flat base portion. The hood portion 9 which straddles the upstanding seam of the roof sheets is provided on opposite sides with lateral flanges 10 having undercut or dovetailed grooves in which inserts 11 of wood, pressed fiber or other suitable non-abrasive material are fitted. By this arrangement the roofing sheets are prevented from coming in contact with the metal of the hood casting and the rubbing action of the wood or fiber upon the roofing sheets does not destroy the galvanizing as is the case where the metal comes in contact with the sheet. Hence, the life of the roofing sheets is prolonged.

The clip shown in Figs. 4 to 6, inclusive, is provided with a hood portion 9^a, flanges 10^a, and fillers 11^a, which are identical with those of the device shown in Figs. 1 to 3, inclusive; but, instead of having a flat portion 7, it is provided with a downturned portion 12 and is adapted to be secured to the side of the car.

Obviously, the non-abrasive inserts may be placed in any position where the roof sheets are liable to rub against the castings. Therefore, I do not wish to be limited to the specific construction and arrangement shown. So, too, it is further obvious that the ordinary retaining clips which are provided at the eaves and ends of the car at points between the side seams of the roofing sheets may be likewise provided with these non-abrasive inserts; and, also, that the wear pieces may be secured to the clips by means other than that shown.

What I claim is:

1. A metal securing clip for roofing sheets having a portion arranged to overhang the sheet and provided with a non-abrasive rubbing surface.

2. A metal securing clip for roofing sheets, having a portion arranged to overhang the sheet and provided with a wear piece of non-abrasive material projecting beyond the face thereof.

3. A metal securing clip for roofing sheets having a portion arranged to overhang the sheet and provided with an undercut groove and an insert of non-abrasive material fitted in said undercut groove and projecting beyond the face of said overhanging portion.

4. A hood casting for retaining metal

roofing sheets having lateral flanges on opposite sides of the hood and wear pieces of non-abrasive material secured to said flanges and projecting beyond the faces thereof.

5. A hood casting for retaining metal roofing sheets having lateral flanges on opposite sides of the hood, said flanges having undercut grooves therein and counterpart wear pieces of non-abrasive material

inserted in said undercut grooves and projecting beyond the faces of said flanges.

Signed at Chicago, Illinois, this 18th day of July, 1912.

CLINTON C. MURPHY.

Witnesses:

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