Dec. 4, 1951 J. W. STRAIGHT 2,577,382

COMBINATION ANVIL AND SHIELD

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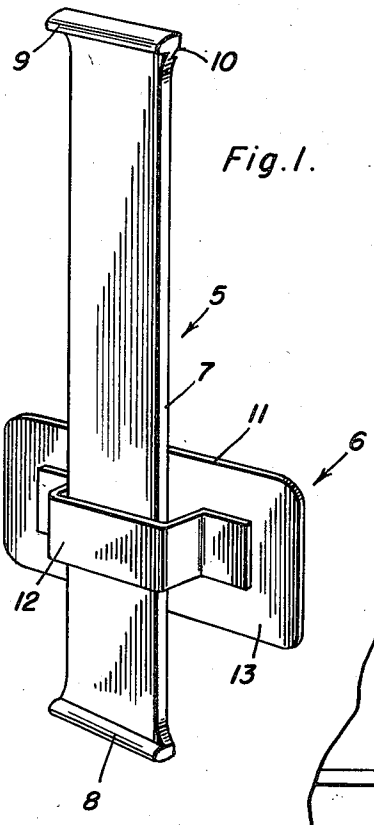



Fig. 1.

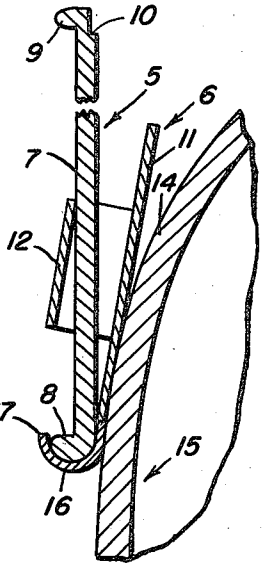



Fig. 2.

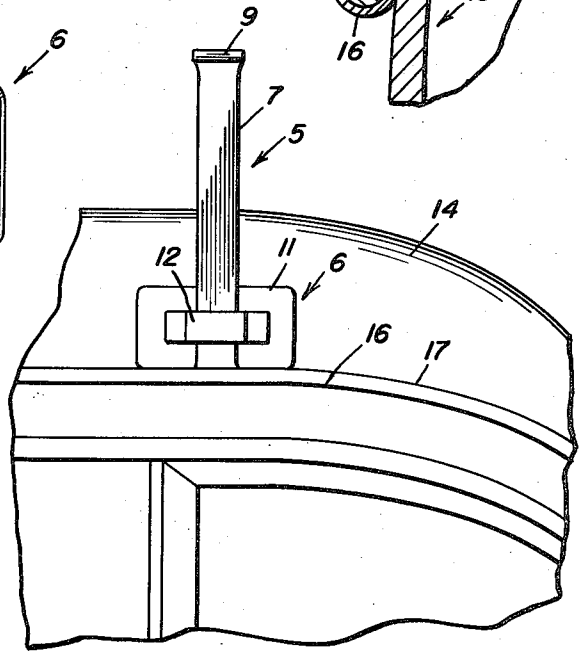



Fig. 3.

*Inventor*

*James W. Straight*

*By* Clarence A. O'Brien and Harvey B. Jacobson

*Attorneys*

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## COMBINATION ANVIL AND SHIELD

James W. Straight, Ely, Nev.

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1 Claim. (Cl. 81—15)

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The present invention relates to a novel and improved combination anvil and shield which is expressly adapted for use by mechanics when reshaping and restoring damaged and irregularly bent drip moldings, or so-called drainage gutters of automobile, to original shape and proportions.

I have discovered the need for a special properly designed and made tool whereby body and fender repairmen may adequately and satisfactorily remold and restoratively shape drip moldings when the latter have become distorted and ineffective for drip collecting and drainage purposes. What is more important, I have evolved and produced what I believe to be a tool and coacting shield which when used together and in conjunction with a body dinging hammer make it possible for the mechanic to reform the molding or gutter to good shape for effective functioning.

In carrying out the principles of the invention I provide a simple and effective two-part assemblage, one part being the shaping and forming tool per se, and the other part a shield which functions as a backing plate for the tool.

The object of this invention is to provide in combination a tool and a shield which is in the form of a substantially rectangular spring steel plate and which is provided on its outer face with a stirrup forming clip which functions to saddle the plate on the shank of the tool.

Other objects and advantages will become more readily apparent from the following description and the accompanying illustrative drawings.

In the drawings:

Figure 1 is a perspective view of the assemblage, the tool and shield, showing same in assembled relationship;

Figure 2 is a sectional view illustrating the manner in which the assemblage is, in one way, used;

Figure 3 is a fragmentary side elevational view of the structure seen in Figure 2.

Referring now to the drawings by distinguishing reference characters, the tool proper or per se is denoted by the numeral 5 and the complemental adapter shield is denoted by the numeral 6.

The tool comprises a rigid steel bar or shank portion 7 having a forming and reshaping anvil or head 8 at one end. At the opposite end I provide a similar outstanding anvil or head 9 and at the same end provide a shoulder 10.

The adapter shield comprises a substantially flat rectangular spring steel plate 11 having a clip 12 attached centrally to the outer side 13. The clip resembles a stirrup and permits the adapter to be saddled and thus properly assembled on the shank portion of the tool. The plate in practice is interposed between the tool and the surface 14 of the body of the car 15. The gutter which is adapted to be reshaped and repaired, is denoted by the numeral 16 and is, of course, conventional in form.

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As shown in Figure 2 the larger anvil head 8 is fitted into the gutter and serves to spread and reshape same when distorted. Consequently, it is a simple repair job to reshape and restore a damaged molding and practice has shown that the repairman would ordinarily be able to finish the job without instructions. Usually, by inserting the anvil into the channel of the gutter the mechanic, with a regular dinging hammer, will be able to hammer out irregularities and restore a crushed molding to given shape. Not only is it possible to simply set the anvil in the gutter and hammer around the anvil but it is possible to longitudinally drag and shift the tool lengthwise in the gutter to open it up for effective finishing purposes. It may be necessary in certain circumstances to drive downwardly by applying hammer blows to the upper end of the tool, as is obvious. The mechanic has at his disposal either of the two differently shaped and sized anvil heads making it possible to employ which ever one is the most suitable for a given job. Then too, it will be noted that the smaller anvil head at the top has associated therewith the aforementioned impacting shoulder 10, and this shoulder may be rested upon the lip 17 of the outer wall of the gutter for resultful use. In practice, the adapter shield, being interposed between the tool and the body tends to protect the surfaces and paint.

It is to be added that the loop-like clip or stirrup 12 is sufficiently large that the headed ends of the tool may be inserted and removed readily and easily.

Changes in shape, size, materials and rearrangement of details and parts may be resorted to in actual practice, so long as they do not depart from the spirit of the invention or the scope of the appended claim, as is well understood.

Having described the invention, what is claimed as new is:

An automobile mechanic's gutter reshaping and repairing tool of the class described comprising, in combination, a flexible backing plate provided on one side with a loop-like clip, a shank removably and slidably mounted in said clip whereby said plate is loosely assembled on said shank, said shank being provided at at least one end with an anvil-like forming head.

JAMES W. STRAIGHT.

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