Nov. 19, 1929. H. S. JANDUS 1,735,926

CLAMP

Filed Jan. 28, 1928

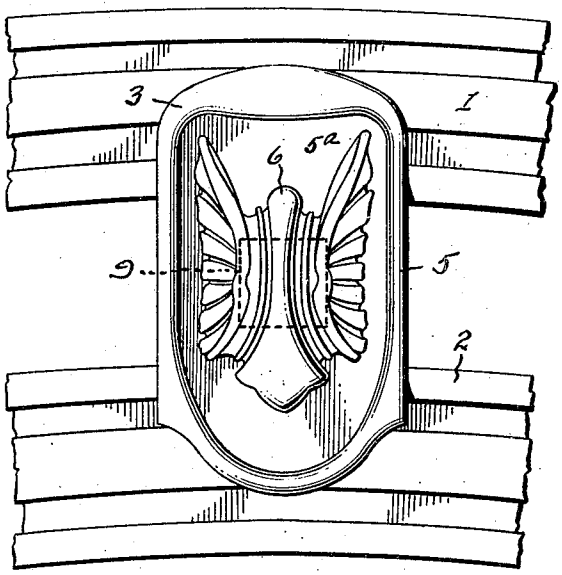


Fig. 1.

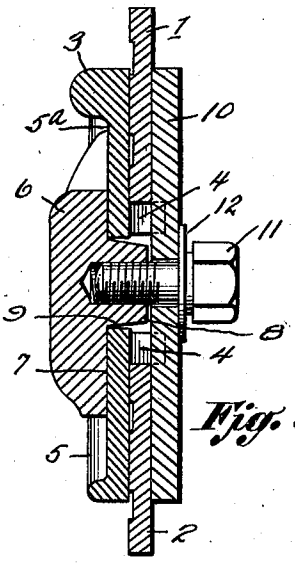


Fig. 3.

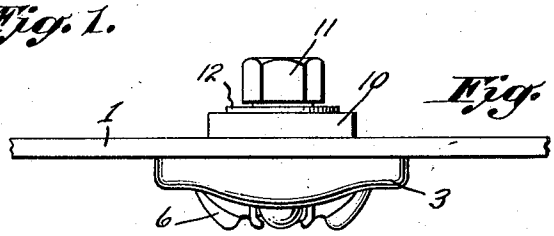
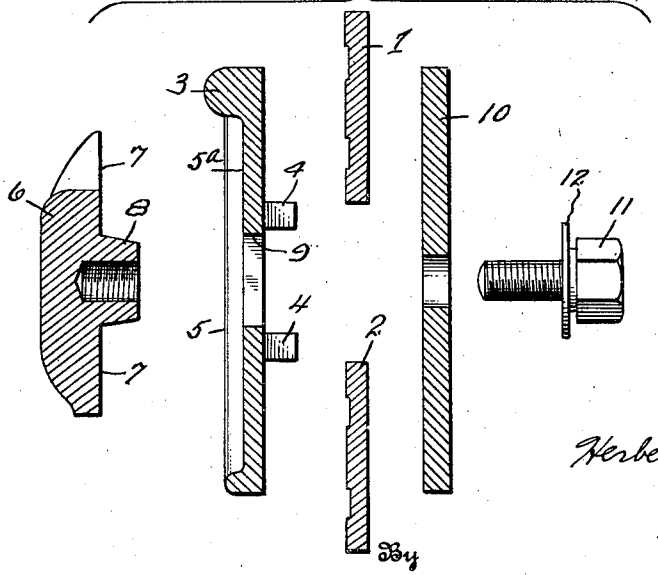


Fig. 2.

Fig. 4.



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UNITED STATES PATENT OFFICE

HERBERT S. JANDUS, OF DETROIT, MICHIGAN, ASSIGNOR, BY MESNE ASSIGNMENTS, TO GENERAL SPRING BUMPER CORPORATION, A CORPORATION OF MICHIGAN

CLAMP

Application filed January 28, 1928. Serial No. 250,160.

This invention relates to a clamp and more particularly to an ornamental multiple plate clamp for use with vehicle bumpers.

A general object of the invention is to provide a clamp presenting an attractive appearance and which may be inexpensively produced. A further object is to produce a multiple plate clamp, the several plates of which are combined to produce an attractive design. A further object is to produce a clamp plate having a recessed surface of irregular and/or narrow design which can be conveniently polished or otherwise prepared for use. Another object is to provide a clamp for holding the bars of a bumper in proper spaced relation and such a clamp which may be easily and quickly applied to the bars.

Further and more or less limited objects will be apparent from the drawings, the following description and the use of articles covered by the appended claims.

In the drawings Fig. 1 represents a fractional front elevation of a pair of bumper bars, showing a clamp embodying my invention attached thereto; Fig. 2 shows a plan view of the assembly shown in Fig. 1; Fig. 3 is a sectional view taken on a vertical line through the center of the clamp shown in Fig. 1; Fig. 4 is a view similar to Fig. 3 with the plates of the clamp separated from each other and from the bars.

In the following description I shall refer to the impact surface of the bumper as the front surface and the terms "front" and "rear" will be used in view of such assumption. It is not, however, thereby intended that the use of the clamp be limited to any particular position on the bumper or in relation to the vehicle.

Of the reference characters 1 and 2 denote vertically spaced impact bars of a bumper, having suitable front surfaces which are here shown as grooved. The numeral 3 indicates a front clamp plate adapted to bear upon the front surfaces of the impact bars 1 and 2 and having rearwardly projecting lugs 4, 4 adapted to extend through between the said support bars and having surfaces adapted to bear upon the adjacent edges of the said bars. The front surface of the clamp plate 3 is shown as having a raised edge 5 which may be of any configuration to give the mechanical and ornamental effect desired. This raised edge is herein shown as extending around the outer edge of the plate, leaving a recessed or depressed surface 5ª within the raised edge. The outer plate 6 has a rear surface 7 adapted to bear upon the depressed surface of the clamp plate 3. The outer surface of the plate 6 may be of a suitable configuration to give the desired ornamental effect in combination with the plate 3. At the central portion of the rear surface of the plate 6 there is shown a rearwardly projecting portion 8, preferably rectangular, adapted to extend through the suitably shaped aperture 9 in the plate 5. A rear plate 10, which may be of any suitable shape, is adapted to bear upon the rear surfaces of the impact bars in a position between the rearwardly extending lugs 4, 4. A bolt 11 passes through an aperture in the rear plate 10 and is threaded into a hole in the rearwardly projecting portion 8 of the plate 6. By tightening the bolt 11 the washer or shoulder 12 will bear upon the rear surface of the rear plate 10 and the two front plates will be drawn toward the rear plate to hold the impact bars in their proper position.

If the ornamental plate 6 and the clamp plate 3 are cast in one piece it is very difficult to polish or otherwise prepare the recessed portion 5ª. A clamp plate using my invention may have its several parts prepared for use by polishing, painting or other means. These finished parts may be then assembled to form the clamp giving the desired ornamental appearance.

The plate 3, providing a broad surface of contact, need not be of material which will withstand tensile stresses and the smaller plate 6 may be made of a different material and one which would provide a suitable anchor for the threads of the bolt 11. If desirable, however, the increased strength of the plate 6 may be obtained by increasing the thickness of that plate.

The projection 8 and the aperture 9 are preferably rectangular, or of some other

angular form, in order that the plate 6 will be prevented from turning with the bolt 11.

It is apparent that many other ornamental configurations may be used for both the plates, my invention being particularly applicable wherever the shape of the assembled parts is such that narrow or irregular recessed surfaces are formed. The desired ultimate design may be made up of any suitable number of complementary plates which may be interengaged to produce such design, or the plates may be interchangeable to give different effects with different combinations of complementary plates. It is further apparent that more than two plates may be used to make up the complete design, and that these plates may be assembled one upon another or more than one upon one plate. It is also apparent that the clamp plates embodying my invention may be used with other arrangements of bumper bars and in order to do so they may be suitably shaped to provide the proper bearing surfaces upon such bars.

Having thus described my invention, what I claim is:

1. A multiple plate clamp for bumper bars comprising a plate adapted to bear upon the bars to be clamped, an ornamental plate adapted to bear upon the first mentioned plate, and having an angular projecting portion adapted to pass through an angular aperture in said first mentioned plate, a plate adapted to bear upon the rear surfaces of the said bars, and means for drawing said plates together.

2. A clamp plate comprising a plate having a recessed portion on its front surface and adapted at its rear surface to bear upon the front surfaces of adjacent bars, a plate adapted to bear upon said recessed surface, and means for drawing said plates toward each other.

3. A multiple section ornamental clamp plate comprising a plate adapted to bear upon the front surfaces of adjacent bars, said plate having a raised ornamental portion and a depressed surface, an ornamental plate adapted to bear upon said depressed surface, a rear bar adapted to bear upon the rear surfaces of said bars, and means for drawing said plates toward each other.

4. A multiple plate clamp for bars comprising a plate adapted to bear upon the front surfaces of said bars, a second plate adapted to exert a pressure upon said first mentioned plate, said second plate having a threaded aperture in its rear portion, a third plate adapted to bear on the rear surfaces of said bars, and a bolt adapted to cooperate with said second and third plates to draw them toward each other.

5. A multiple plate clamp for spaced bars comprising a plate adapted to bear upon the front surfaces of said bars, said plate having rearwardly extending portions adapted to extend between and bear upon the edges of said bars, a second plate adapted to exert a pressure upon said first-mentioned plate and having a threaded aperture in its rear portion adapted to receive a bolt stem, a third plate adapted to bear upon the rear surfaces of said bars, and a bolt adapted to cooperate with said second and third plates to draw them toward each other.

6. A multiple plate clamp for use on bumper bars comprising a plate having an angular aperture therein and having surfaces adapted to bear upon the front surfaces of said bars, a second plate adapted to bear upon said first-mentioned plate and having a rearwardly projecting portion adapted to extend within said angular aperture and to cooperate therewith to prevent relative rotary movement of said plates, a plate adapted to bear upon the rear surfaces of said bars, and a bolt adapted to be threaded into an aperture in said second plate and to draw said plates toward each other.

7. A multiple plate clamp for use on bumper bars comprising a plate adapted to bear upon said bars, a second plate of increased strength adapted to bear upon said first mentioned plate and having a threaded aperture in its rear portion adapted to receive the stem of a bolt, a third plate adapted to bear upon the rear surfaces of said bars and a bolt cooperating with said second and third plates to draw them toward each other.

8. A clamp comprising an ornamental plate adapted to bear upon the front surfaces of plates to be clamped, said ornamental plate having an angular aperture therein, an outward ornamental plate adapted to bear upon the surface of said first mentioned ornamental plate and having an angular projection adapted to extend through said aperture, and clamping means for drawing said plates toward each other.

In testimony whereof, I hereunto affix my signature.

HERBERT S. JANDUS.