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A. V. BARWOOD

1,950,469

WASHER DISPLAY GAUGE

Filed May 16, 1931

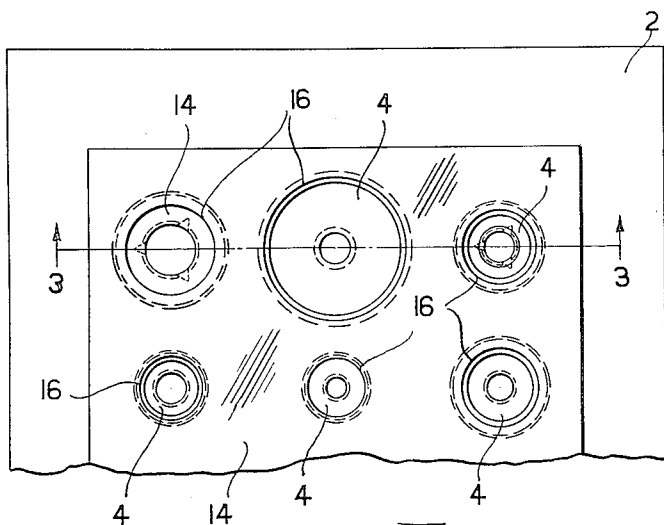


Fig. 1

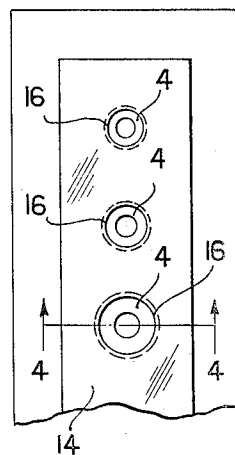


Fig. 2

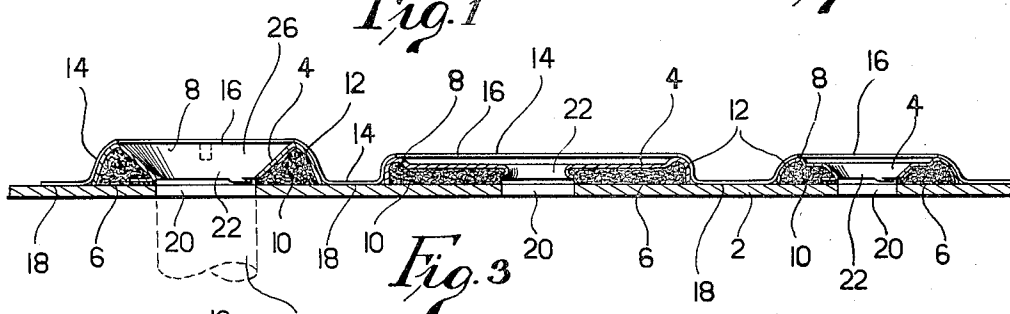


Fig. 3

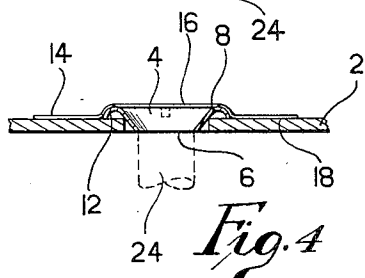


Fig. 4

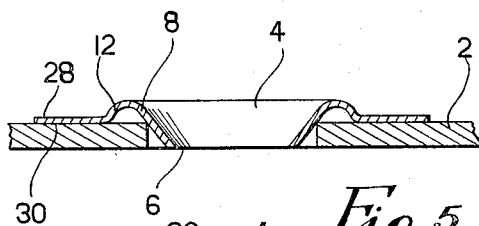


Fig. 5

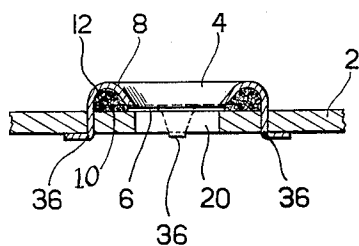


Fig. 6

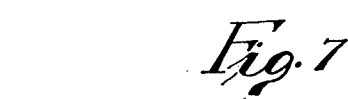


Fig. 7

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WASHER DISPLAY GAUGE

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8 Claims. (Cl. 33—174)

The present invention relates to washer display gauges.

Washers, being of different sizes and shapes, are adapted to be mounted over screws or bolts the heads of which have similarly varying characteristics. To each screw or bolt head intended to be used, the prospective user must find the corresponding washer. To match each washer with each screw or bolt is a great inconvenience, for it involves picking up one washer after another and one screw or bolt after another and inserting the successive screws or bolts into the openings of the washers.

According to a feature of the present invention, a large number of washers of different size and shape are mounted on one or more supporting cards that have openings alined with the washers. All that is then necessary is to put a desired screw or bolt through the alined openings of the washers and card. The matching is thus readily effected in short order.

The invention will now be explained in connection with the accompanying drawing, in which Fig. 1 is a fragmentary view of a washer display embodying the present invention; Fig. 2 is a modification of the same; Fig. 3 is a section taken upon the line 3—3 of Fig. 1, looking in the direction of the arrows and upon a larger scale; Fig. 4 is a similar section taken upon the line 4—4 of Fig. 2; and Figs. 5, 6 and 7 are similar sections of modifications.

Upon a card 2 are secured a plurality of washers 4 with their bottoms 6 adjacent to the card and their tops 8 exposed. The washers may be of any desired form and may be of any desired shape and size. They may be plain, as illustrated in Figs. 4, 5 and 6, or they may be provided with paddings 10, as shown in Figs. 3 and 7. In all cases, the washers are provided with peripheral flanges 12 some of which taper outward from the tops 8 toward the bottoms 6. A celluloid sheet 14 is, according to the preferred embodiment of the invention, employed to hold the washers in place on the card 2. The celluloid sheet is provided with openings 16 of smaller respective diameters than the larger diameters of the flanges 12 of the corresponding washers, thus holding the washers in place on the card 2, as illustrated more particularly in Figs. 3 and 4. The sheet 14 may be secured to the card 2 in any desired manner, as by cement, at 18, where the sheet 14 contacts with the card 2. In this manner the washers are held in place on the card 2 and are visible, not only through the openings 16, but also through the transparent celluloid where the celluloid con-

finer the washers, as along the peripheral flanges 12.

The card 2 is provided with openings 20 alined with the openings 22 of the washers, as well as with the openings 16 in the celluloid sheet 14. It is thus possible to insert a screw or bolt 24 through the alined openings 16, 22 and 20 and to permit the head 26 of the screw to become seated against the washer, as illustrated in dotted lines in Fig. 3. But if the head 26 does not fit the washer exactly, the screw 24 is removed and placed through the alined openings 16, 22 and 20 corresponding to another washer. This process is repeated until the head 26 of the screw 24 fits a washer to the desired degree of approximation. It is thus possible to determine, without removing the washers from the card 2, which size and shape of washer is adapted for use with any particular size or shape of screw or bolt 24. Washers of that particular size and shape may then be supplied from stock, the stock numbers corresponding to the numbers (not shown) on the card 2 adjacent to the respective washers. If desired, however, the proper washer may be removed from the card.

The celluloid sheet 14 may be replaced by any other type of sheet, preferably transparent for the reasons before given, but it is not essential that the washers be confined on the card 2 by a sheet 14. For example, the flanges 12 of the washers may be provided with extensions 28, as shown in Fig. 5, which extensions may be cemented to the card 2 at their regions 30 of contact with the card. Indeed, the padded washers shown in Figs. 1 and 3 may be similarly held to the card 2 by cement, if desired, though the use of the celluloid sheet is preferable. Again, the washers may be provided with openings 32 as shown in Fig. 6, through which openings 32 screws 34 may be threaded to hold the washers in place on the card 2 or, if desired, the washers may be stitched to the card through the openings 32. The washers may also be provided with prongs 36, that may be bent over against the back of the card 2, after being pressed therethrough, as illustrated in Fig. 7.

All such and other modifications are considered to fall within the skill of the artisan and are considered to be within the spirit and scope of the invention as defined in the appended claims.

What is claimed is:

1. A washer display comprising a support, washers supported thereby with their bottoms adjacent to the support and their tops exposed,

and means separate from the support and cooperating with the support for securing the washers to the support, the support having openings therethrough alined with the openings of the washers to permit the entry of a screw or bolt within the openings.

2. A washer display comprising a support, washers supported thereby with their bottoms adjacent to the support and their tops exposed, the washers having peripheral flanges that taper outward from the tops toward the bottoms, and means engaging the flanges and cooperating with the flanges and with the support for securing the washers to the support, the support having openings alined with the openings of the washers to permit the entry of a screw or bolt within the openings.

3. A washer display comprising a support, washers supported thereby with their bottoms adjacent to the support and their tops exposed, the washers having peripheral flanges that taper outward from the tops toward the bottoms, and a sheet having openings of smaller respective diameters than the larger diameters of the flanges of the corresponding washers and mounted over and secured to the support with the washers alined with the said openings, whereby the washers are held between the support and the sheet, the support having openings alined with the openings of the washers to permit the entry of a screw or bolt within the openings.

4. A washer display comprising a support, washers supported thereby with their bottoms adjacent to the support and their tops exposed, the washers having peripheral flanges that taper outward from the tops toward the bottoms, and a celluloid sheet having openings of smaller respective diameters than the larger diameters of the flanges of the corresponding washers and mounted over and cemented to the support with the washers alined with the said openings, whereby the washers are held between the support and the sheet, the support having openings alined with the openings of the washers to permit the entry of a screw or bolt within the openings.

5. A washer display comprising a support, washers supported thereby with their bottoms adjacent to the support and their tops exposed, the washers having peripheral flanges, and a sheet having openings mounted over and secured to the support with the washers alined with the said openings, whereby the washers are held between the support and the sheet, the support having openings alined with the openings of the washers to permit the entry of a screw or bolt within the openings.

6. A washer display comprising a support, washers supported thereby with their bottoms adjacent to the support and their tops exposed, the washers having peripheral flanges, and a celluloid sheet having openings of smaller respective diameters than the larger diameters of the flanges of the corresponding washers and mounted over and cemented to the support with the washers alined with the said openings, whereby the washers are held between the support and the sheet, the support having openings alined with the openings of the washers to permit the entry of a screw or bolt within the openings.

7. A washer display comprising a support having a top surface, washers supported by the support with their bottoms in contact with the top surface and their tops exposed, and means for securing the washers to the support, the support having openings therethrough alined with the openings of the washers to permit the entry of a screw or bolt within the openings.

8. A washer display comprising a support, washers supported thereby with their bottoms adjacent to the support and their tops exposed, the washers having peripheral flanges, and means cooperating with the flanges and with the support for securing the washers to the support, the support having openings therethrough alined with the openings of the washers to permit the entry of a screw or bolt within the openings.

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