May 8, 1951 W. A. WING 2,551,819

CUSHION SEAT DRAIN STRUCTURE

Filed March 1, 1946

FIG. 1

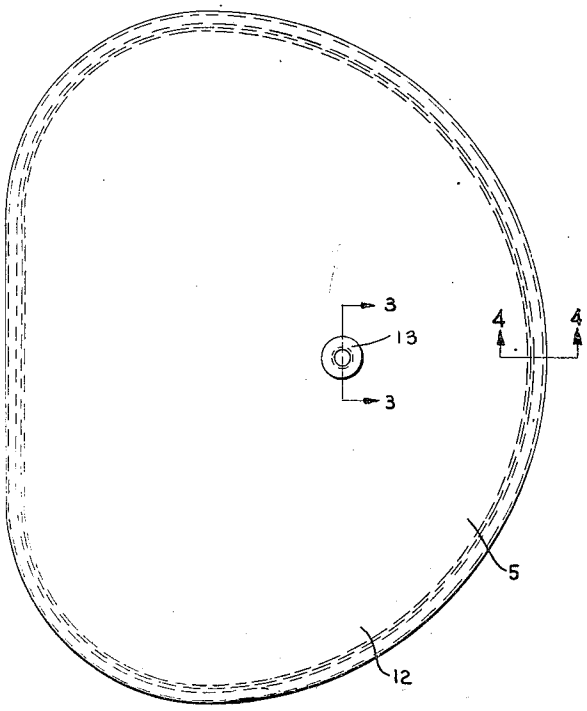


FIG. 3

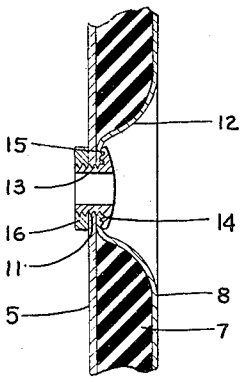


FIG. 2

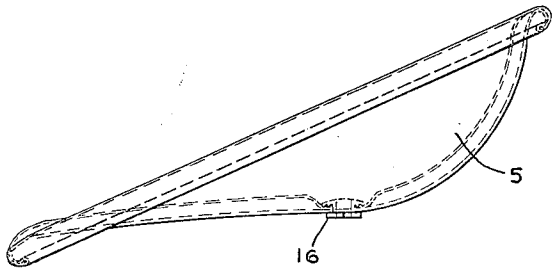
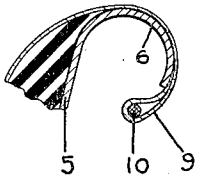


FIG. 4



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CUSHION SEAT DRAIN STRUCTURE

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1 Claim. (Cl. 155—179)

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The invention relates to cushion seats and more particularly to a seat for use on tractors, motorcycles, and the like.

Tractors, motorcycles, and the like are usually equipped with bucket type metal seats which are uncomfortable, and removable cushions are provided for such seats. In inclement weather water collects in such cushioned seats, and this invention has for its general object to prevent this by providing a drain opening through the cushion and the metal seat to allow any water that might collect in the seat to drain therefrom and also to act as an air ventilating opening for the seat when in use.

More particularly, according to the present invention, the seat frame has a drain opening in the central portion of its cavity, the cushioning material placed on the seat frame has an opening therein alined with said opening and a portion of the cushioning material surrounding this opening is removed and the top covering for the cushion is extended down over the cushioning to the sides of the seat frame surrounding its drain opening. A headed clamping sleeve has its shank inserted through said drain opening and its head engaged with the extended edges of the covering for the cushioning material surrounding the opening and a nut engages the threaded shank of the sleeve and bears against the seat frame to clamp the extended sides of said covering in a fluid-tight manner between said seat frame and the head of said sleeve.

The invention further consists in the several features hereinafter set forth and more particularly defined by the claim at the conclusion hereof.

In the drawings:

Fig. 1 is a top plan view of a seat embodying the invention;

Fig. 2 is a side elevation view of the seat;

Fig. 3 is a detailed vertical sectional view taken on the line 3—3 of Fig. 1;

Fig. 4 is a detailed vertical sectional view taken on the line 4—4 of Fig. 1.

Referring to the drawings, the numeral 5 designates generally a bucket type seat frame of metal having a rolled edge 6. A removable cushion pad composed of cushioning material 7 is secured to a flexible covering 8. It is formed to fit in the cavity of the seat frame 5. A portion 9 of the covering is extended over the curved edge 6 of the seat to form a drawstring pocket. A drawstring 10 is mounted in this pocket, so that tightening the drawstring will draw the covering into tight engagement with the seat frame. The cushioning material may be either of sponge rubber, felt, or other suitable cushioning material. At the bottom of the cavity of the seat frame 5 an opening 11 is provided. The removable pad

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structure has its cushioning material omitted at a point alined with this opening. The covering 8 is brought down to the sides of this opening to form a depressed portion 12 in the covering and an opening alined with the opening 11. The sides of the covering adjacent the opening are securely clamped in fluid-tight engagement with the base or seat frame 5 by means of a flanged threaded sleeve member 13 which has annular grooves 14 formed in the flange portion thereof to provide clamping ridges 15 that engage firmly with the covering material. This sleeve is held in clamping engagement with the covering and the frame by means of a nut 16 that threads onto the outer end of the sleeve. The sleeve is of metal, and when in position, forms a drain and ventilating opening through the seat. The seat may be secured to its supporting pedestal in any suitable manner.

I desire it to be understood that this invention is not to be limited to any particular form or arrangement of parts except in so far as such limitations are included in the claim.

What I claim as my invention is:

In a bucket type seat, the combination of a metal seat frame dished to form a deep cavity and having an opening in its bottom, a cushioning pad having a covering secured to said seat and having an opening through it alined with said opening in said frame, the sides of said covering surrounding its opening extending beyond the cushioned part of said pad and contacting said frame, a headed sleeve member having its head in fluid tight engagement with the extended sides of said covering at said opening and having a threaded shank extending through said alined openings, and a nut engaging said threaded shank and bearing against said frame to clamp said sleeve member to said frame with its head holding the extended sides of said covering in fluid-tight engagement with it and also in fluid-tight engagement with said frame.

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