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1,970,533

SADDLE

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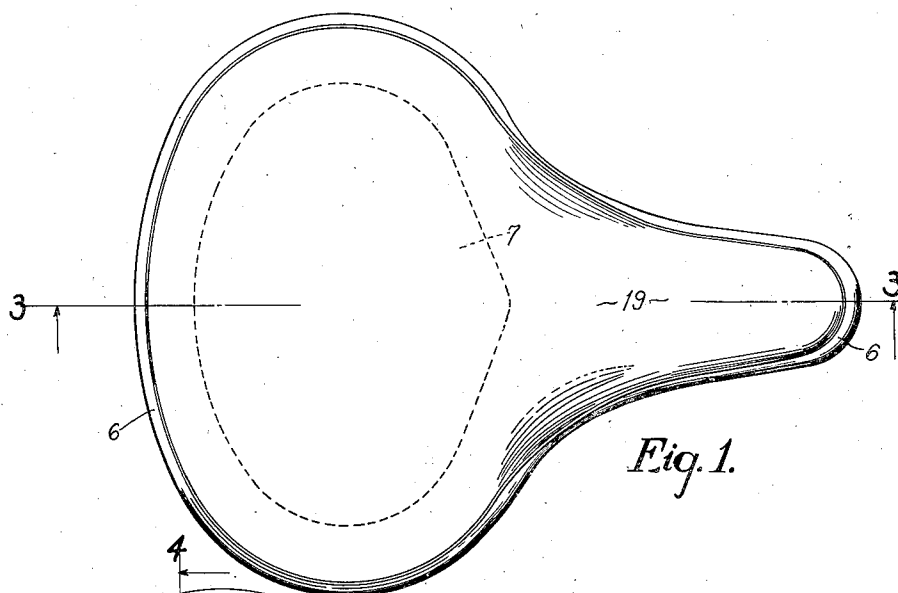


Fig. 1.

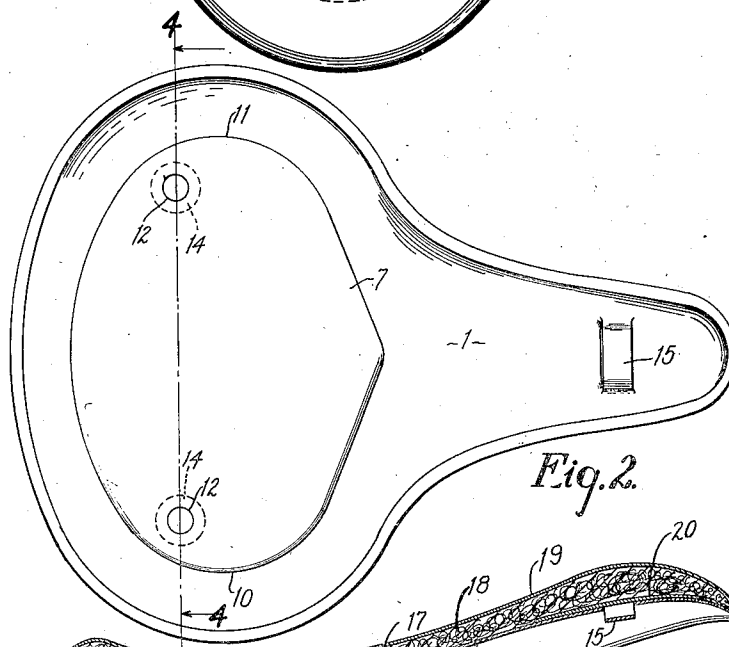


Fig. 2.

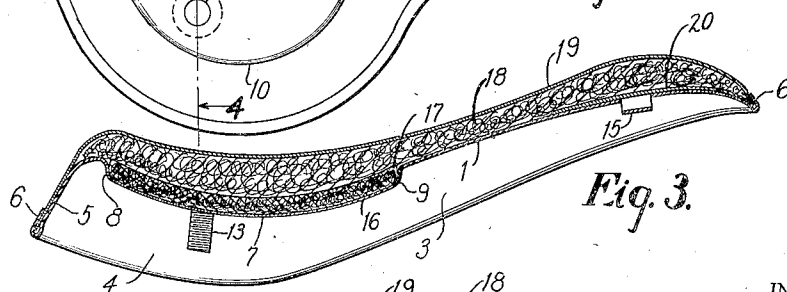


Fig. 3.

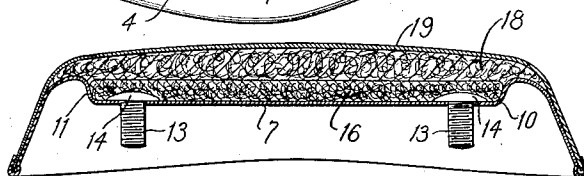


Fig. 4.

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SADDLE

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7 Claims. (Cl. 208—15)

This invention relates to saddles and more particularly to saddles of the general type employed on cycles.

Saddles heretofore proposed, although variously constructed, have been subject to a number of objections. One class of saddles, for example, is made with a steel or other sheet metal stamped frame having a cover of leather, artificial leather or the like and a thick layer of hair or other filling and cushioning material between the metal frame and the cover; and to retain the cover in position, one or more layers of fabric or artificial leather or the like is provided on the under side of the saddle sheet metal frame as an under cover, and in order to retain the covers in position on the frame their peripheral edges are stitched or sewn together, and in some cases an additional binding strip is lapped over the peripheral edges of the two covers and all three parts sewn together.

Heretofore, also, in saddles of this class, various means have been provided to supplement the cushioning effect of the hair or other filling material.

It is therefore an object of this invention to provide an improved saddle of the class referred to.

Another object is to provide an improved means for securing the outer saddle cover to the saddle frame.

Another object is to provide an improved cushioning means for saddles of this class.

Another object is to provide a saddle of this class wherein the saddle cover may be secured to the frame without stitching or the like and whereby the appearance thereof may be rendered more aesthetic.

Another object is to provide a saddle of the class referred to wherein the peripheral portions of the saddle cover may be secured to peripheral portions of the saddle frame in an improved manner.

Another object is to provide a saddle of the class referred to wherein the under cover may be dispensed with.

Other objects will be apparent to those skilled in the art to which my invention appertains.

My invention is fully disclosed in the following description taken in connection with the accompanying drawing, in which:

Fig. 1 is a top plan view of a saddle embodying my invention;

Fig. 2 is a view of the under side of the saddle of Fig. 1;

Fig. 3 is a longitudinal sectional view of the

saddle of Fig. 1 taken approximately from the plane 3—3 of Fig. 1;

Fig. 4 is a transverse sectional view of the saddle of Fig. 1 taken approximately from the plane 4—4 of Fig. 1.

Referring to the drawing, I have shown at 1 the saddle frame, formed from a single piece of sheet metal by cutting and stamping operations. The frame is generally of pear form and its peripheral edge is bent downwardly for a relatively short distance at the front of the saddle and in the particular embodiment illustrated for greater and greater distances as at 3 and 4, proceeding toward the rear of the saddle, and projecting downwardly to a maximum extent at the rear of the saddle as at 5.

The entire peripheral edge of the frame thus provided is bent upwardly as shown at 6 in a manner and for a purpose to be more fully explained.

In the rearward portion of the saddle frame 1, there is press-formed a shallow recess 7, which may be of any suitable size, contour and disposition. In the form illustrated, the recess begins at a point 8 slightly spaced from the rear end of the saddle and extends to a point 9 about midway of the saddle and laterally extends to points 10 and 11 slightly spaced from the sides of the saddle.

In the bottom of the recess 7 is provided a pair of transversely spaced perforations 12—12 and bolts 13—13 having large flat heads 14—14 are projected downwardly therethrough and may be used to secure to the under side of the saddle frame any suitable spring and reach member construction well known in this art.

In the forward part of the frame, there is cut and downwardly pressed a loop 15 through which may be inserted, to secure it to the saddle frame, an element of the spring and reach bar construction on which the saddle may be mounted. The bolt 13 and loop 15 are merely one illustrative means for these purposes and various other means may be employed as will be clear to those skilled in this art.

A pad 16 of felt, rubber or like cushioning material is formed peripherally to fit in the recess 7 and is placed therein and preferably is of such thickness as to project slightly upwardly out of the recess 7 as shown at 17. A cushioning layer of filling material such as hair 18 covers the entire upper surface of the saddle frame and of the pad 16, and an outer cover 19 of leather, leather substitute, or like material, covers the filling. The peripheral portions of the cover are

bent downwardly and cover the depending portions 3 to 5 inclusive of the frame periphery and the extreme peripheral edge of the cover is disposed within and embraced by the upturned 5 peripheral portion 6 of the frame.

With the parts assembled as just described, the peripheral flange 6 of the frame is finally bent inwardly upon the embraced cover portions to clamp them securely and permanently upon 10 the frame. The appearance of the complete saddle as will now be apparent will be very neat and aesthetic and have attractive lines; and to further add to its aesthetic appearance, the exposed outer face of the flange 6 may be buffed 15 or may be plated with metal such as chromium and then buffed, thereby providing a metal bead finish entirely around the saddle and in conjunction therewith the cover 19 may have a contrasting color such as red or green.

If desired, a flap 20 of any suitable material such as fabric, or leather or leather substitute, may be laid upon the saddle frame to cover a perforation made in pressing the loop 15 from the metal of the frame and to prevent the filling 25 material 18 from exuding therethrough, and the forward end of the flap may be clamped within the flange 6 along with the portion of the cover 19 at that point.

As will now be clear, by the above described construction, I provide a saddle having the minimum of parts, requiring the minimum of operations to produce it, and having an improved cushioning effect therein for the rider thereon, and a saddle which has exceptional 35 aesthetic merit.

My invention is not limited to the exact details of construction illustrated and described. Changes and modifications may be made therein without sacrificing advantages thereof and without departing from the scope of the appended 40 claims.

I claim:

1. A saddle comprising a sheet metal frame and a cover therefor of flexible sheet material, 45 the cover being secured to the frame within a peripheral fold of the frame metal.

2. A saddle comprising a press-formed sheet metal frame and a cover therefor of flexible

sheet material, peripheral portions of the frame being folded to embrace peripheral portions of the cover to secure the cover to the frame.

3. A saddle comprising a sheet metal press-formed frame, and a leather or like cover, peripheral portions of the frame being bent upwardly to provide a channel therearound, peripheral portions of the cover being bent downwardly and disposed in the channel and the channel clamping the cover peripheral portions 80 therein to secure the cover to the frame.

4. A saddle comprising a press-formed sheet metal frame and a cover therefor of flexible sheet material, peripheral portions of the frame being folded to embrace peripheral portions of the cover to secure the cover to the frame, said frame being formed to provide an upwardly open recess and a cushioning pad of resilient material disposed within the recess. 85

5. A saddle comprising a press-formed sheet metal frame and a cover therefor of flexible sheet material, peripheral portions of the frame being folded to embrace peripheral portions of the cover to secure the cover to the frame, said frame being formed to provide an upwardly open recess and a cushioning pad of resilient material disposed within the recess, and cushioning filling material disposed both between the cover and the pad and also between the cover and the frame. 90 95 100 105

6. A saddle comprising a cover of flexible material, cushioning material disposed within the cover and a supporting frame element underlying the cushioning material and comprising a peripheral sheet metal fold clamping 110 ingly embracing the edges of the cover.

7. A cycle saddle comprising a cushioned saddle top having a cover of flexible material, and a sheet metal binder comprising a folded sheet metal element clampingly embracing the peripheral edges of the cover and concealing the unfinished edges thereof and formed to provide a smooth metallic peripheral surface for the saddle edges to substantially non-frictionally engage the clothing of the rider during use of 120 the saddle.

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