

June 9, 1942.

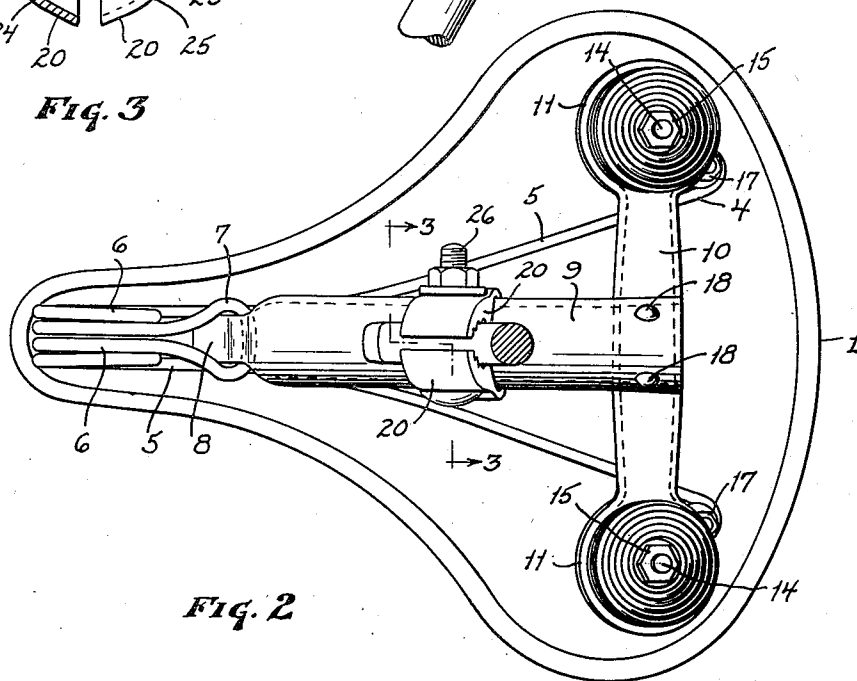
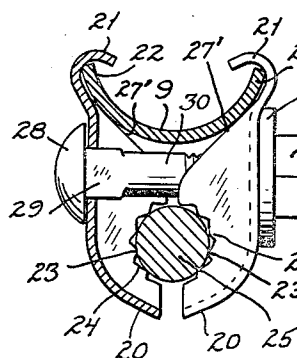
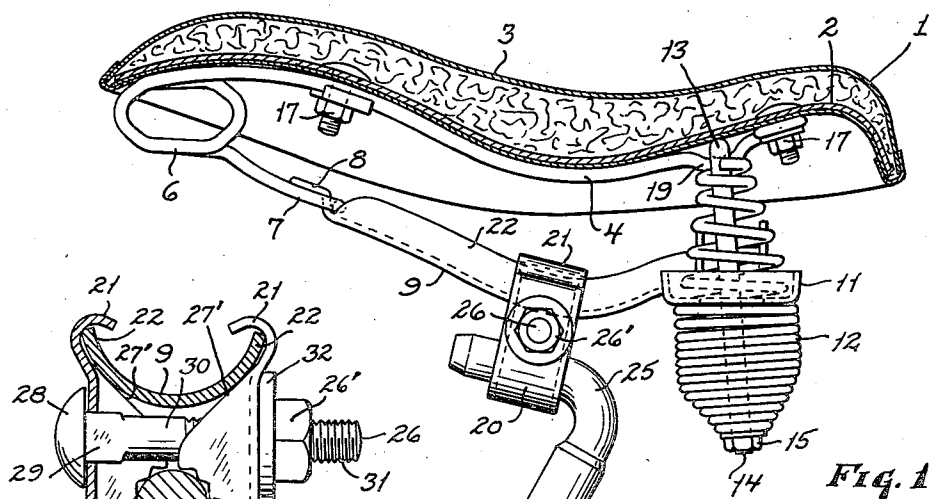
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2,286,138

CYCLE SADDLE

Filed July 13, 1940

2 Sheets-Sheet 1



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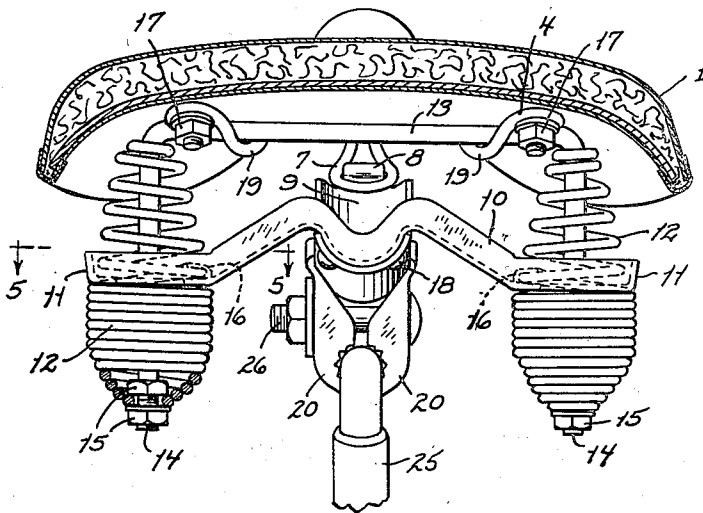


Fig. 4

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2,286,138

CYCLE SADDLE

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Application July 13, 1940, Serial No. 345,333

8 Claims. (Cl. 155—5.24)

My invention relates to cycle saddles and relates more particularly to an improved type of post securing means adapted to be associated therewith.

It is an object of my invention to provide a cycle saddle assembly which is efficient in use, inexpensive to manufacture and easily assembled.

Another object of my invention is to provide an improved post securing means for a cycle saddle of the type described.

Another object of my invention is to provide means for securing the saddle assembly to the post means which will securely lock the same against movement when in its assembled position.

Another object of my invention is to provide improved means whereby the saddle post may be secured to the reach member.

Other objects of my invention and the invention itself will become more apparent by reference to the following description wherein:

Fig. 1 is a side elevational view, partly in section, of a saddle employing my invention;

Fig. 2 is a bottom plan view of the embodiment of my invention shown in Fig. 1;

Fig. 3 is a view taken on the line 3—3 of Fig. 2;

Fig. 4 is a rear elevational view, partly in section, of the saddle of my invention.

Referring now to the drawings, in Fig. 1, at 1 I show a saddle, the construction of which constitutes no essential part of my invention, but which, in the form shown in accordance with well known practice, is constructed of a metal frame 2 to which the padded cover 3 is suitably affixed in any desired manner.

Secured to the underside of the seat frame 2 is a spring coil 4 bent substantially to V-form and extended, adjacent the confluence of the converging lateral arms 5—5, to form spring coils 6—6 adjacent the pommel portion of the saddle. The spring coils are axially aligned to define a two-section spiral spring, the inner adjacent ends joining in the form of a loop 7 which is interlocked with a projecting tongue 8 of a concave curved sheet metal reach member 9 secured by riveting or the like to a rear brace 10 which, as best shown in Fig. 4, is of channel form and carries at each of its opposite ends an eye 11 through which helical rear springs 12 are adapted to be projected.

As shown in Fig. 4 herein an intermediate convolution of each spring is supported by the respective eye 11, thus providing compression springs between the rear brace 10 and the saddle and tension springs below the brace which

support the downwardly extending legs 14 of a crank element 13 which are adapted to project therethrough and to be anchored to the springs by nuts 15 or the like.

The coil spring 4 is secured to the underside of the cantle portion of the saddle by means of securing elements 17—17 or the like and is curved adjacent its cantle ends as at 19 to fit over the yoke of the crank member, and thus hingedly secures the latter to the saddle. It is to be further noted that the reach element 9 is secured to the underside of the brace element 10 by means of rivets 18 and that said brace member 10 is substantially of ogee formation, as best shown in Fig. 4, having its apex seated within the channel of the said curved reach member at its jointure therewith.

The improved post securing means of my invention are formed, as best illustrated in Fig. 3 herein, from a pair of clamp elements 20—20 similarly formed, said clamps having hook portion 21 adapted to be suspended from and project inwardly of the outer upwardly curved sides 22 of the metal reach member 9 and said hook elements are shaped to conform to the curve of said sides of the reach member. The clamp members 20—20 preferably have their inner faces provided with arcuate post engaging portions 23 which are provided with radial teeth or grooves 24 which are adapted to engage the post element 25 when said clamp elements are adjusted, by means of bolt and nut means 26—26' projected through aligned preferably square shaped perforations 27 provided in each of said clamp elements, with relation to the post 25 and with further relation to the reach member 9, as shown in Figs. 1 to 4 inclusive, so as to wedgingly engage the post and securely retain the same therebetween.

In assembling the parts of the clamp, above described, as shown in Figs. 1 to 4 herein, the bolt 26 is preferably loosened and the clamp elements adapted to be loosely suspended, by means of the curved formation of the reach member and the elements are then adapted to hang loosely pendant on either side of the post whereupon after the nut 26' is tightened, the claw surfaces 23 of the clamp elements are adapted to securely engage the post, by means of the serrated inner surfaces and to rigidly secure the reach and post assembly.

It is to be noted that the improved clamp of my invention is enabled by means of the reach member and clamp structures shown herein to

adapt itself to various size posts and that such clamp consists of a minimum of parts, easily assembled.

It is further to be noted that the substantially inclined upward reach contacting surfaces 27'—27' of said clamp members form a substantially V-shaped enclosure to wedgingly engage said reach member on its underside and that the hook portions 21 are adapted to securely retain the assembled clamp element upon the reach member and to prevent any lateral shifting thereof.

The bolt 26 used to assemble the separate clamp members 20—20 of my invention, as clearly shown in Fig. 3 herein, is preferably provided with a round head 28, a square shoulder 29, said square shoulder being substantially of the extent of said perforations 27, and a substantially cylindrical stem 30 which is screw threaded, as shown at 31, and upon which nut means 25' are adapted to be threaded.

I preferably provide a washer 32 to more securely retain the bolt and nut securing means within the clamp elements.

In operation, when the saddle carried by the reach assembly is under load and the clamp is subjected to tilting stress in use, the indented faces 23 of the clamp members 20 the more tightly engage the post and a certain amount of indenturing occurs. Further, the reach member 9 and the hook portions of the clamp members together, due to their wedging engagement, resists any tilting movement of the clamp and the clamp, as above described, may be used on different size posts without any further change other than adjustment of the bolt and nut means.

My invention is not limited to the exact details of construction shown and described and numerous changes and modifications may be made therefrom without departing from the spirit of my invention and from the scope of the appended claims.

I claim:

1. A cycle saddle clamp of the class described adapted to be telescoped over a substantially horizontal saddle post and to support the saddle in fixed adjusted position on said post, said clamp member consisting of a pair of similarly formed members, each member having an upper hook portion, an inwardly inclined intermediate portion and an arcuate serrated lower portion, said clamp members cooperating to form a post securing clamp having a generally V-shaped upper portion, said portions further being adapted to engage the said saddle post in such manner as to form a retaining eye therefor, securing means adapted to be projected through aligned perforations disposed in each of said clamp members whereby said clamp members and said post means are rigidly secured together.

2. In a saddle assembly, a channelled reach member, a post, post and reach assembly means comprising a pair of similarly formed clamp members, each member having an upper hook portion adapted to engage an opposite side of the said channelled reach member and to be suspended therefrom, each of said clamp members having a generally arcuate lower portion, both of said lower portions adapted to cooperate to provide a retaining eye for said post, securing means adapted to be projected through aligned perforations provided in each of said clamp members whereby said post may be securely retained in said eye and said clamp mem-

bers may be securely maintained upon said reach member.

3. A cycle saddle clamp of the class described, said clamp consisting of a pair of similarly formed members, each member consisting of a reversely curved web portion, said web having an upturned hook end portion, a pair of depending flange portions disposed on either side of said web portion, said flange portions each being provided with serrations, securing means projected through each said web portions whereby the same are secured together to form a cycle clamp.

4. In a saddle assembly, a saddle, a reach member, a saddle post, a cycle clamp formed of a pair of generally S-shaped members consisting of notched side portions and end hook portions, said hook portions adapted to be suspended from said reach member and said notched side portions adapted to be disposed about portions of said post, said side portions being serrated securing means adapted to secure said clamp members together whereby said notched serrated portions of said members may securely clamp the cycle post therebetween said end hook portions may be securely engaged with said reach member.

5. In a saddle assembly, a channelled reach member of arcuate form, a saddle post, clamp means consisting of a pair of similarly formed members, each clamp member having an upper hook portion, an inwardly inclined intermediate portion, and an arcuate notched portion, each of said hook portions being suspended from opposite curved sides of said channelled reach member, the inclined surfaces of said clamp members having wedging engagement with said sides when said clamp members are secured together by means projected therethrough.

6. In a saddle assembly, a channelled reach member of arcuate form, a saddle post, clamp means consisting of a pair of similarly formed members, each clamp member having an upper hook portion, an inwardly inclined intermediate portion, and an arcuate notched portion, each of said hook portions being suspended from opposite curved sides of said channelled reach member, the inclined surfaces of said clamp members having wedging engagement with said sides when said clamp members are secured together by means projected therethrough, the arcuate notched portions of said clamp members being positioned about said saddle post and adapted to have locking engagement therewith.

7. In a saddle assembly, a channelled reach member of arcuate form, a saddle post, clamp means consisting of a pair of similarly formed members, each clamp member having an upper hook portion, an inwardly inclined intermediate portion, and an arcuate notched portion, each of said hook portions being suspended from opposite curved sides of said channelled reach member, the inclined surfaces of said clamp members having wedging engagement with said sides when said clamp members are secured together by means projected therethrough, the arcuate notched portions of said clamp members being positioned about said saddle post and adapted to form a retaining eye therefor whereby said clamp members may have locking engagement therewith.

8. A cycle saddle clamp of the class described adapted to be telescoped over a substantially horizontal saddle post and to support the saddle in fixed adjusted position on said post, said clamp consisting of a pair of similarly formed mem-

bers, each member consisting of a curved web portion, said web having an upturned hook end portion, a pair of depending flange portions disposed on either side of said web portion, said flange portions being inwardly inclined, said hook 5 end portions adapted to be suspended from and to have secure engagement with a saddle reach

member, said inclined portions of said flanges adapted to have wedging engagement with said reach member, securing means adapted to secure said clamp members together whereby said clamp member may be rigidly secured to the reach member and to a saddle post member.

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