

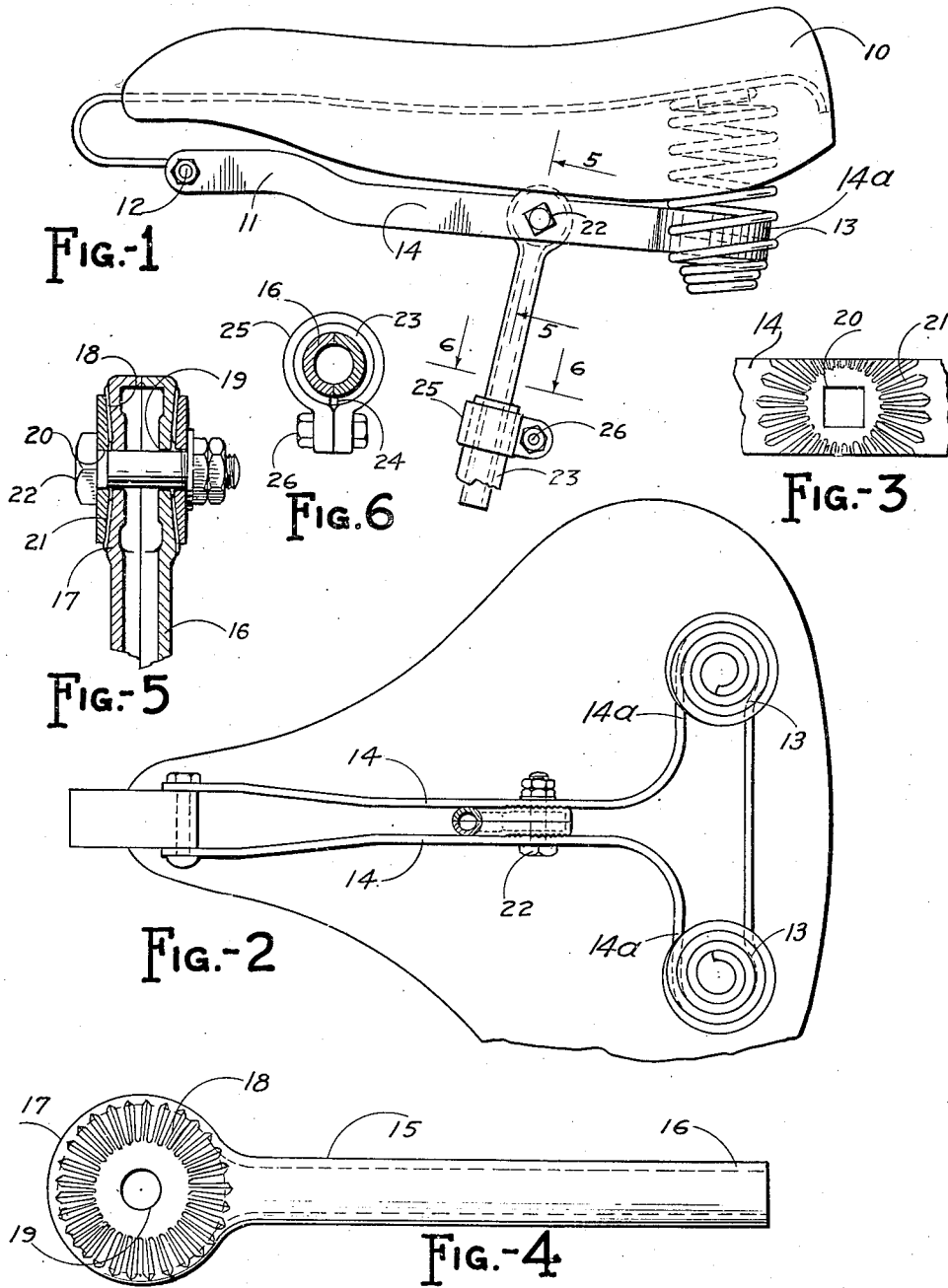
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CYCLE SADDLE POST

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2,374,809

CYCLE SADDLE POST

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9 Claims. (Cl. 155—5.24)

This invention relates to cycle saddles, and more particularly to an improved arrangement for securing the saddle to the frame of a cycle.

The principal object of this invention is to simplify and reduce the cost of the means for mounting the saddle on the vehicle, while retaining adequate strength and permitting a wide range of positions of the saddle with respect to the vehicle frame. Other objects are to reduce the cost of the materials and of the fabricating operations for manufacturing the saddle mounting; to reduce the number of parts; and to provide adequate strength and rigidity for mounting the saddle upon any type of vehicle, and at any desired angle.

In the accompanying drawing, which illustrates a preferred embodiment of this invention:

Figure 1 is a side elevation of a saddle equipped with the present invention showing a portion of the frame of the vehicle;

Figure 2 is a bottom plan view of the saddle and post;

Figure 3 is a detail side elevation showing the serrations on the saddle reach member;

Figure 4 is a side elevation of the saddle post;

Figure 5 is a section taken on the line 5—5 of Figure 4; and

Figure 6 is a section taken on the line 6—6 of Figure 1.

Referring to the drawing, the saddle illustrated embodies a seat member 10 connected by any suitable spring arrangement to a reach 11. As illustrated the reach is pivotally connected at 12 to the front end of the seat, and carries coil springs 13 at its rear end resiliently supporting the seat.

Preferably the reach comprises a single piece of strip steel bent to form parallel reach members 14 and spring supporting loops 14a, as disclosed in my copending application Serial No. 185,940, filed January 20, 1938, which has become Patent No. 2,347,093, issued on April 18, 1944. It will be understood, however, that any desired form of reach or spring construction may be used.

The saddle post comprises two separate members 15, each of which may be stamped from sheet metal and each of which forms one-half of the saddle post and eye. Each member 15 includes a semi-cylindrical portion 16 which forms one-half of the post proper, and a hollow ring 17 which forms one-half of the eye. Each of the ring portions 17 is stamped with serrations 18 on its outer or convex surface and is formed centrally with an aperture 19. Each member 15 may

be stamped or pressed from a flat sheet of metal and may be formed with serrations 18 and the central aperture 19 during the forming operations.

The parallel reach members 14 are formed with aligned apertures 20 and their inner surfaces are stamped with serrations 21 which cooperate with the serrations 18 on the post members 15. The two post members 15 are assembled with their concave sides facing each other and with their edges in contact throughout the length of the semi-cylindrical portions 16 and throughout the circumference of the ring portion 17. The eye formed by the mating ring portions 17 is then placed between the parallel reach portions 14 with the serrations 18 in engagement with the serrations 21 and the entire assembly is clamped together by a bolt 22. The parallel reach portions 14 are readily yieldable toward and away from each other to permit the same to be spread to receive the assembled post members 15 and to be pulled together by the bolt 22. The apertures 19 in the post members 15 closely fit the bolt 22 to assist in preventing displacement of these members. The bolt holds the serrations 21 on the parallel reach members 14 tightly in engagement with the serrations 18 on the eye, with the post arranged at any desired angle with respect to the reach, and at the same time holds the two members 15 in their proper assembled relation with the two semi-cylindrical portions 16 forming a cylindrical post.

The vehicle is ordinarily provided with a hollow tubular member to receive the saddle post and with suitable means to secure the post in position at the desired elevation from the vehicle. As illustrated the vehicle frame includes a tube 23 which is split as indicated at 24 and surrounded at the upper end by a split clamp 25 arranged to be pulled together by a bolt 26. With the bolt 26 loosened the split tube 23 expands to permit the mating semi-cylindrical portions 16 to be inserted into the opening in the tube 23. The bolt 26 is then tightened, drawing up the clamp 25 and clamping the split tube 23 into tight engagement with the mating semi-cylindrical portions 16. This clamping action supports the saddle at any desired elevation from the vehicle frame, and also rigidly clamps the abutting edges of the semi-cylindrical portions 16 in engagement with each other.

Thus the post itself consists of two separate sheet metal members which are secured in assembled relation at their opposite ends by the clamping bolt 22 through the reach members 14 and by

the clamp 25 on the vehicle frame. These holding means effectively secure the two members 15 into a single unit substantially as rigid as a solid post. The bolt 22 fitting in the apertures 19, and the clamping pressure of the bolt secure the edges of the ring portions 17 in abutting relation. The confining of the semi-cylindrical portion 16 in the tube 23, and the clamping pressure exerted by the clamp 25, prevent any possible displacement of these portions.

It will be understood that any other clamping arrangement for securing the saddle post to the vehicle frame functions in the same way to secure the semi-cylindrical members 16 in their desired mating relation.

This arrangement of a post having a serrated eye cooperating with serrated surfaces on parallel reach members eliminates the necessity for any clamping members to secure the post to the saddle, although additional clamp plates, either separate or one-piece, may be used when desired. In its broader aspects the invention may also be used with a solid post formed in any suitable manner with a serrated eye, as disclosed in my copending application Serial No. 185,940, filed January 20, 1938, of which the present case is in part a continuation. Many other modifications and variations may be made without departing from the scope of the invention as defined in the following claims.

I claim:

1. In a cycle saddle assembly, a saddle post comprising a pair of mating sheet metal members, each of said members having a substantially semi-cylindrical portion and an apertured end formed with serrations surrounding the aperture, said members being assembled with the concave sides of said semi-cylindrical portions facing each other forming a substantially cylindrical post, a pair of spaced clamping members formed with serrations on their adjacent surfaces, the apertured ends of said sheet metal members being disposed between said clamping members, and securing means passing through said spaced clamping members and through the apertures in the ends of said sheet metal members and holding the serrations on said sheet metal members in engagement with the serrations on said clamping members.

2. In a cycle saddle assembly, a saddle post comprising a pair of mating sheet metal members, each of said members having a substantially semi-cylindrical portion and an apertured end formed with serrations surrounding the aperture, said members being assembled with the concave sides of said semi-cylindrical portions facing each other forming a substantially cylindrical post, a pair of spaced clamping members formed with serrations on their adjacent surfaces, the apertured ends of said sheet metal members being disposed between said clamping members, securing means passing through said spaced clamping members and through the apertures in the ends of said sheet metal members and holding the serrations on said sheet metal members in engagement with the serrations on said clamping members, and means surrounding and clamping said cylindrical post to a vehicle.

3. In a cycle saddle assembly, a saddle post comprising a pair of mating sheet metal members, each of said members having a substantially semi-cylindrical portion and a cup-shaped apertured end formed with serrations surrounding the aperture, said members being assembled with the concave sides of said semi-cylindrical

portions facing each other forming a substantially cylindrical post, and with the edges of said cup-shaped ends abutting each other forming an eye serrated on its opposite sides, a pair of spaced clamping members formed with serrations on their adjacent surfaces, said eye being disposed between said clamping members, and securing means passing through said spaced clamping members and through the apertures in the ends of said sheet metal members and holding the serrations on said eye in engagement with the serrations on said clamping members.

4. In a cycle saddle assembly, a pair of spaced clamping members, a post comprising a pair of separate sheet metal members each having at one end a flanged, apertured ring portion, said sheet metal members being assembled with the edges of the flanges on said ring portions in engagement, forming an eye, said eye being positioned between said clamping members, and a securing member passing through said clamping members and through the apertures in said ring portions, said securing member clamping said eye between said clamping members and securing said ring portions in assembled relation.

5. In a cycle saddle assembly, a pair of spaced clamping members, a post comprising a pair of separate sheet metal members each having at one end a flanged, apertured ring portion, said sheet metal members being assembled with the edges of the flanges on said ring portions in engagement and their apertures in alignment, forming an eye, said eye being positioned between said clamping members and a bolt passing through said clamping members and passing through and closely fitting the aligned apertures in said ring portions, said bolt clamping said eye between said clamping members and securing said ring portions in assembled relation.

6. In a cycle saddle assembly, a pair of spaced clamping members, a post comprising a pair of separate sheet metal members each having a semi-cylindrical post portion and at one end a flanged, apertured ring portion, said sheet metal members being assembled with the edges of said semi-cylindrical post portions in engagement, forming a post, and the edges of the flanges on said ring portions in engagement, forming an eye, said eye being positioned between said clamping members, a bolt passing through said clamping members and through the apertures in said ring portions, said bolt clamping said eye between said clamping members and securing said ring portions in assembled relation, and means for clamping said post to a vehicle and securing said semi-cylindrical post portions in assembled relation.

7. A saddle post for mounting a saddle on a cycle comprising a pair of mating sheet metal members, each of said members having a semi-cylindrical portion and a flanged apertured ring formed at one end of the semi-cylindrical portion, said members being assembled with the edges of the semi-cylindrical portions abutting and forming a substantially cylindrical post and the edges of the flanges of said ring portions abutting and forming an eye portion with the apertures of said ring portions in alignment.

8. A saddle post for mounting a saddle on a cycle comprising a pair of mating sheet metal members, each of said members having a semi-cylindrical portion and a flanged apertured ring formed at one end of the semi-cylindrical portion, said rings having serrations around the apertures therein, said members being assembled with

the edges of the semi-cylindrical portions abutting and forming a substantially cylindrical post and the edges of the flanges of said ring portions abutting and forming a serrated eye portion with the apertures of said ring portions in alignment, and a bolt for securing said post to a saddle passing through and closely fitting the apertures in said ring portions.

9. In a cycle saddle assembly, a seat carrying a pair of spaced reach members, a saddle post comprising a plurality of separate sheet metal members of similar configuration assembled to form

5 a tubular post and a connecting portion of closed ended hollow cylindrical form, said connecting portion being disposed between said reach members, securing means clamping said reach members against opposite sides of said connecting portion and holding said members against each other and against relative axial displacement, and clamping means embracing said post and holding said members against each other and against relative angular displacement about said securing means.

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