Nov. 11, 1941. G. E. BULLOCK 2,262,221

SADDLE CONSTRUCTION

Original Filed June 16, 1937

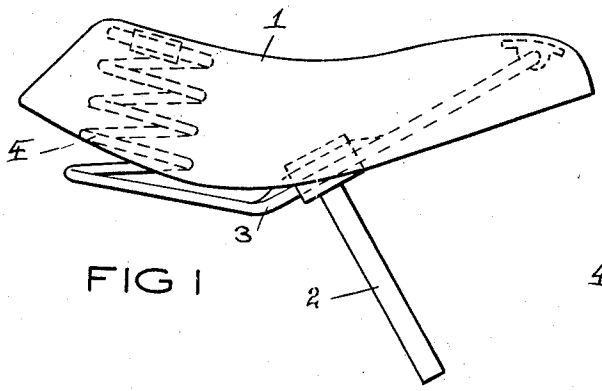


FIG 1

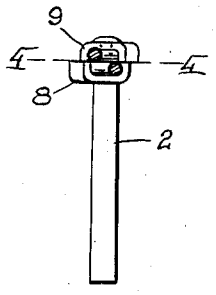


FIG 3

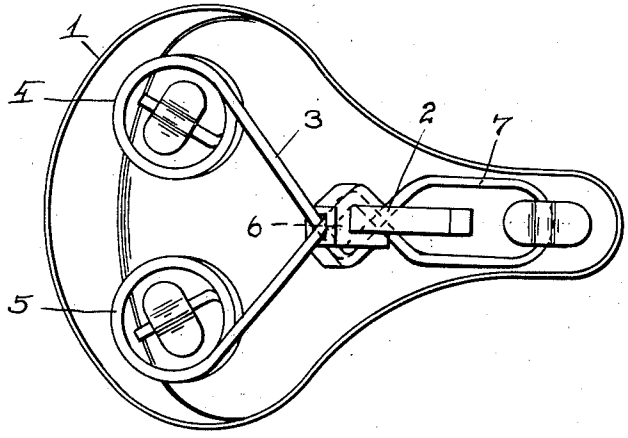


FIG 2

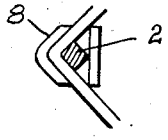


FIG 4

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SADDLE CONSTRUCTION

Giles E. Bullock, Rochester, N. Y.

Original application June 16, 1937, Serial No. 148,525. Divided and this application May 8, 1940, Serial No. 334,019

3 Claims. (Cl. 155—5.22)

This invention relates to saddles for bicycles, velocipedes, etc. and has for its principal object to provide a novel saddle construction which is inexpensive in its construction but embodies many features of a high grade saddle.

This and other objects and attendant advantages of this invention will become more readily apparent from the detailed description thereof which follows, reference being had to the accompanying drawing in which—

Figure 1 is a side elevation of the saddle embodying my invention.

Figure 2 is a bottom plan view thereof.

Figure 3 shows the saddle post and its support and connection with the springs of the saddle.

Figure 4 is a horizontal section of the saddle post and its spring support, the section being taken on the line 4, 4 in Figure 3.

This application is a division of application Serial No. 148,525, filed June 16, 1937, Patent No. 2,202,479, issued May 28, 1940, and the subject matter of the present invention comprises a novel saddle construction made up of the saddle member 1, the saddle post 2 and the novel saddle supporting means interposed between the saddle member and the post for the cushioned support of the saddle member. The saddle member is preferably formed of sheet metal and its supporting spring member 3 is formed in one piece and includes two coils 4 and 5, the top of each of which is suitably fastened to the under side of the saddle as illustrated in Figures 1 and 2. The wire connection between the coils 4 and 5 is formed into a spring arm by having the projecting bottom ends of the coils bent angularly toward each other and then cross each other twice to first form a small substantially rectangular loop 6 and then a large elongated loop 7. Both loops are bent so as to extend forwardly and upwardly from the bottom of the coils 4 and 5 for the attachment of the outer end of the spring arm to the under side of the saddle at the forward end thereof.

Crossing the wire to form the anchoring loop 6 serves to stiffen the arm at its point of attachment to the saddle post 2. For this attachment a clamping washer 8 is carried by the post 2 and is formed so as to provide an angular seat on one side of the post. A similar clamping washer 9 is superimposed on the first washer so as to provide an angular seat on the other side of the post. In this way one half of the rectangularly shaped loop 6 is adapted to extend around on one side of the saddle post in the seat of the clamping washer while the other half of the rectangularly shaped anchoring loop extends around the other side of the loop in the seat of the other clamping washer. The two clamping washers are suitably held together on the saddle post to firmly clamp the crossed portions of the wire loop together to stiffen the wire arm and have the fixed loop 6 hold the arm against endwise and twisting movement on the saddle post. The coils of the spring member thus support the rear portion and the spring arm the front portion of the saddle member while the intermediate portion of the spring member is firmly fastened to the saddle post to additionally cushion the entire saddle member on the saddle post. It is therefore readily apparent that the single wire support provides a highly efficient cushioning member and a strong and firm support for the saddle.

I claim:

1. A saddle and saddle post, a spring connection between said saddle post and saddle comprising a pair of wire coils with the wire connecting the coils at the bottom thereof being crossed and recrossed at spaced points and having a portion of the wire extending from one of said coils overlap a portion of the wire extending from the other of said coils; to form a closed loop to one side of the coils with a continuation of said wire providing a spring arm extending from said loop, means for fastening the end of said spring arm to one end of said saddle, means for fastening the top of said coils to the other end of said saddle and means for clamping the overlapping portions of the wire of said spring arm to said saddle post.

2. A saddle and saddle post, a spring support interposed between said saddle post and said saddle, said spring support comprising a pair of integrally formed parallel wire coils with the wire connecting said coils at the bottom thereof projecting to one side of the coils and being crossed at spaced points to provide a large and small closed loop to one side substantially intermediate of said coils to form a spring arm integral with said coils, clamping means for clamping said small wire loop to said saddle post with the post projecting therethru, means for fastening the top of said coils to said saddle and means for fastening the end of said spring arm to said saddle.

3. A saddle construction comprising the combination of a spring support for said saddle comprising a pair of integrally formed parallel wire coils connected at the bottom with the wire connecting said coils extending angularly toward each other and crossing and recrossing each other

angularly at spaced points to have a portion of the wire extending from one of said coils overlap a portion of the wire extending from the other of said coils and provide a substantially rectangular opening between them, a spring arm formed by the extension of said wire from said opening, a saddle post, a shoulder on said saddle post, a cupped washer supported on said shoulder so as to embrace the overlapping portion of said wire at the bottom of said spring arm with the saddle post projecting thru said opening, a cupped clamping washer placed over the other side of the overlapping portion of said wire at the top of said spring arm, means for clamping said small overlapping portions of said wire between said washers with the saddle post projecting thru the opening between them, and means for fastening the top of said spring coils to said saddle and means for fastening the end of said spring arm to said saddle.

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