

No. 832,149.

PATENTED OCT. 2, 1906.

H. D. McKINNEY.
CHECKREIN HOOK.
APPLICATION FILED MAR. 31, 1903.

Fig. 1.

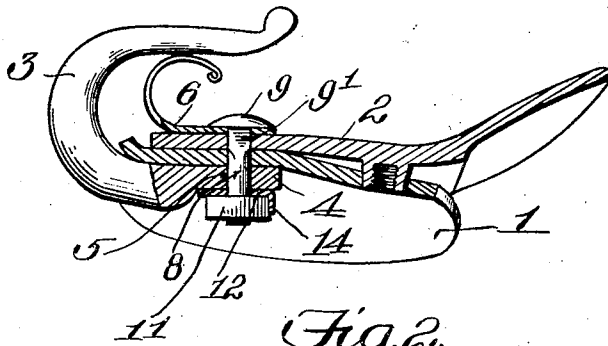


Fig. 2.

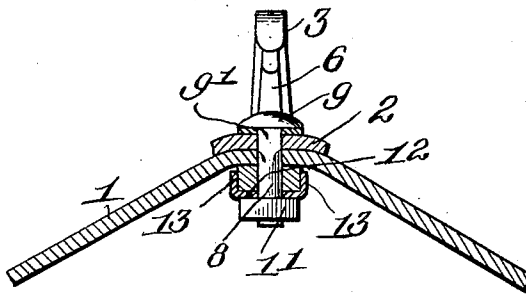
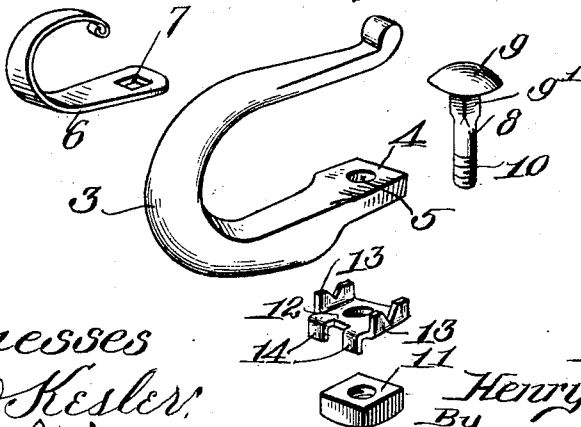


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

HENRY D. McKINNEY, OF JANESVILLE, WISCONSIN.

CHECKREIN-HOOK.

No. 832,149.

Specification of Letters Patent.

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Application filed March 31, 1903. Serial No. 150,460.

To all whom it may concern:

Be it known that I, HENRY D. McKINNEY, a citizen of the United States, residing at Janesville, in the county of Rock and State of Wisconsin, have invented new and useful Improvements in Checkrein-Hooks, of which the following is a specification.

This invention relates to improvements in checkrein-hooks; and the object thereof is to provide novel, simple, and efficient means in connection with the hook for thoroughly securing the latter to the saddle.

Heretofore considerable trouble and annoyance has been experienced in connection with the loosening of the checkrein-hooks, owing to the fact that the securing means for the hooks becomes loosened, and when this occurs it is necessary to rip or open the pad-strap, so that access can be had to the securing means for tightening it. The foregoing objection—that is, the loosening of the checkrein-hook owing to the fact that its securing means becomes loosened—is overcome by the novel construction of a checkrein-hook and its securing means to be hereinafter more specifically described, illustrated in the accompanying drawings, and particularly pointed out in the claims hereunto appended.

In describing the invention in detail, reference is had to the accompanying drawings, forming a part of this specification, wherein like reference characters denote corresponding parts throughout the several views, and in which—

Figure 1 is a longitudinal sectional view showing the hook secured in position. Fig. 2 is a transverse sectional view; and Fig. 3 is a detail view of the checkrein-hook, retaining-spring, and securing means separated.

Referring to the drawings by reference characters, 1 denotes the saddletree, and 2 the saddle-plate. These are of known construction.

The reference character 3 denotes the checkrein-hook of the ordinary construction and has its lower end flattened, as at 4, and provided with an opening 5. The saddletree 1 and plate 2 are provided in their forward portions with an opening adapted to be in alinement with the opening 5 of the flattened end 4 of the hook 3. Within the hook 3 is arranged a checkrein-retaining spring 6, the latter being substantially of the same contour as the hook 3, and its lower end extends over the saddle-plate and is formed with a square opening 7, which receives the square portion

of a bolt hereinafter referred to. When the spring 6 is in position, it is adapted to be interposed between the head of the bolt hereinafter referred to and the upper face of the saddle-plate 2.

Extending through the openings of the saddletree 1, plate 2, spring 6, and hook 3 is a bolt 8, provided with a head 9, a square portion 9' and a screw-threaded portion 10. The squared portion 9' of the bolt is adapted to prevent the spring 6 from turning when the bolt is in position. The screw-threaded portion 10 of the bolt 8 is adapted to carry a fastening-nut 11, which when screwed home securely clamps or attaches the tree 1, plate 2, hook 3, and spring 6 together.

To prevent the nut 11 from becoming loosened when the parts are secured together, the bolt 8 carries a locking-plate 12, and which is interposed between the upper face of the nut 11 and the lower face of the flattened end 4 of the hook 3. Each side of the plate 12 is formed with two pairs of bendable ears 13, the ears of each pair of ears being separated by a V-shaped notch. The ears 13 are adapted to be bent upwardly, so as to engage the sides of the flattened end of the hook 4. This manner of bending the ears 13 will prevent the locking-plate 12 from turning when in its locking position. The front end of the plate 12 is formed with a pair of bendable ears 14, the latter being suitably spaced apart, and when the plate 12 is in position the ears 14 are adapted to be bent downwardly, so as to engage one side of the nut 11 and prevent the turning thereof.

In assembling the parts together the forward portion of the saddletree 1 is superposed upon the lower end of the hook 3, the saddle-plate is superposed upon the saddletree 1, and the lower end of the spring 6 superposed upon the saddle-plate 2. The superposing of these various parts is such that their openings aline with one another. The bolt 8 is then passed through the opening and extends below the lower face of the flattened end 4 of the hook 3. After this has been done the locking-plate 12 is mounted upon the bolt, as well as nut 11. The latter is then screwed home, so that the parts will be thoroughly clamped together. If desired, the end of the bolt can be bradded, to further retain the nut in position. When the parts are arranged as herein set forth, the ears 13 are bent upwardly, so as to engage the sides of the flattened end portion 4 of the hook 3,

which will prevent the turning of the locking-plate 12, and the ears 14 are bent downwardly, so as to engage one side of the nut 11. This will prevent the nut from turning.

5 It will be evident from the foregoing arrangement of parts that they will be securely clamped together and that the nut 11 will be prevented from loosening as well as the locking-plate 12 from turning.

10 It is thought the many advantages of a checkrein-hook and its securing means will be thoroughly understood from the foregoing description, taken in connection with the accompanying drawings, and it will further-
15 more be evident that changes, variations, and modifications can be resorted to without departing from the spirit of the invention or sacrificing any of its advantages, and I therefore do not wish to restrict myself to the de-
20 tails of construction hereinbefore described and as shown in the accompanying drawings, but reserve the right to make such changes, variations, and modifications as come properly within the scope of the protection prayed.

25 Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A checkrein-hook having a flattened end

formed with an under seat, a saddle-plate 30 provided with a squared opening, a saddle-tree intermediate the hook and the plate and having an opening adapted to register with the opening in the saddle-plate, a headed bolt having a shank, the latter being squared 35 for a portion of its length and mounted in said opening and adapted to extend through the said tree and hook, said shank having a threaded terminal, a nut engaging said terminal and adapted to lie within said seat of the hook to reduce the downward extent of 40 the nut, a locking-plate intermediate the nut and said hook and provided with oppositely-disposed extensions for engaging the flattened portion of the hook and also one side of the nut, for locking the hook, plate and nut in a 45 fixed position, and a yieldable member carried by the bolt and having contact with the hook near the free terminal thereof for performing an automatic retaining device.

In testimony whereof I have hereunto set 50 my hand in presence of two subscribing witnesses.

HENRY D. McKINNEY.

Witnesses:

A. E. BINGHAM,
L. M. BROWNELL.