F. KOCH.

Harness-Saddle.

No. 204,673. Patented June 11, 1878.

Fig. 2.

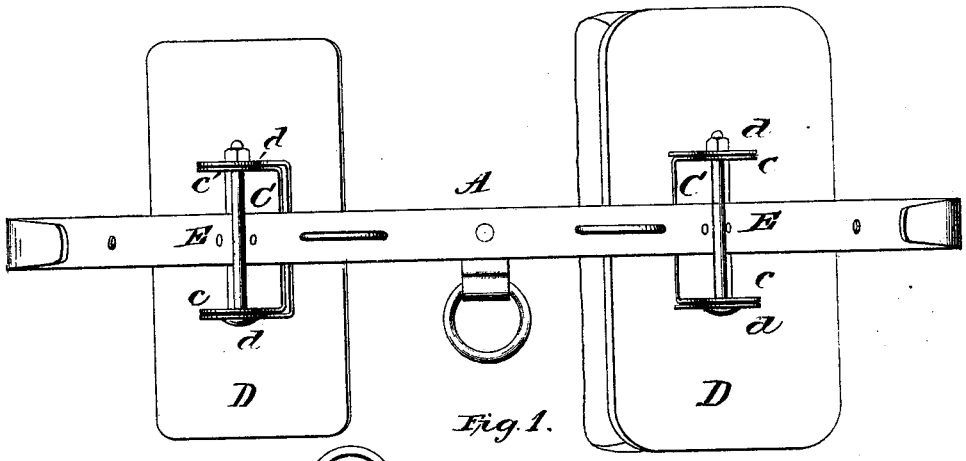


Fig. 1.

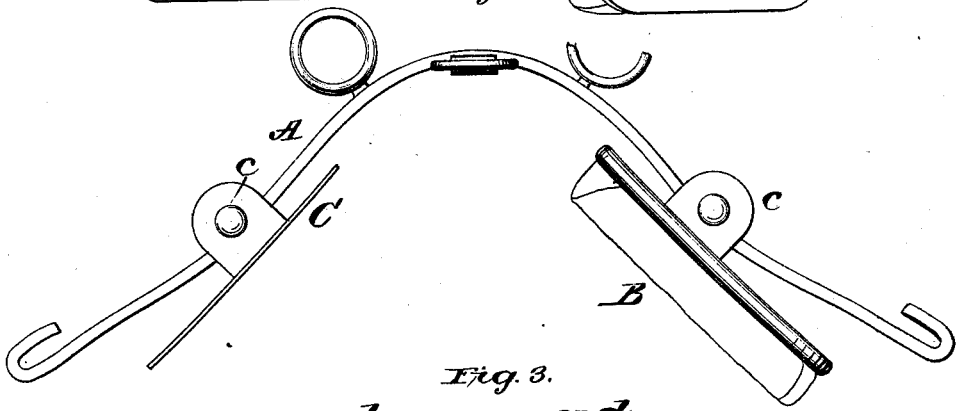
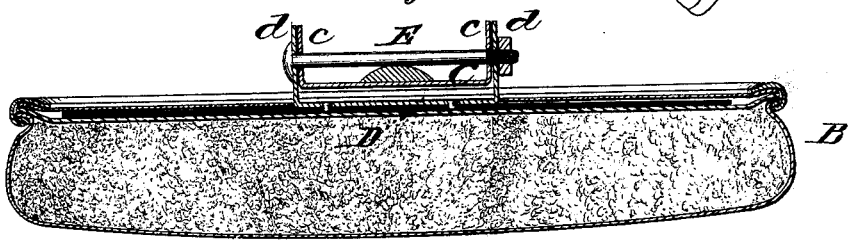


Fig. 3.



Attest:

John Hartmeyer

L. Shuh

Inventor:

Friedrich Koch

UNITED STATES PATENT OFFICE.

FREIDRICH KOCH, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF HIS RIGHT TO FRANCIS XAVIER HUBER, OF SAME PLACE.

IMPROVEMENT IN HARNESS-SADDLES.

Specification forming part of Letters Patent No. **204,673**, dated June 11, 1878; application filed November 17, 1877.

To all whom it may concern:

Be it known that I, FREIDRICH KOCH, of the city, county, and State of New York, have invented a new and useful Improvement in Saddles; and I do hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an elevation of the saddle, partly in section; Fig. 2, a top-plan view of the same; and Fig. 3 is a longitudinal sectional view through one of the sides of the saddle.

Similar letters of reference in the accompanying drawings denote the same parts.

The object of this invention is to improve harness-saddles and other saddles by rendering the pads more readily and completely self-adjustable to the animal's back; and to this end the invention consists in a rocking self-adjustable pad combined with the curved frame of the saddle, in the manner herein set forth.

In the drawings, A represents the curved frame of a harness-saddle, having the usual hooks, loops, terrets, &c. This saddle, when adapted for use as a cart-saddle, may have the frame grooved for the reception of the back-chain, and it may be otherwise constructed in any of the forms and modes usual in different classes of saddles.

B B are the pads, each constructed in the usual manner and attached to the curved frame A by a swiveling or rocking connection, so that when the saddle is in place on the back of the animal, the pads, rocking easily on their pivot, will adapt themselves readily and perfectly to the shape of the surface on which they rest.

The mode of construction which I have adopted consists in securing across the under side of the frame a short metal plate, C, having lugs *c c* turned up at its ends, and securing to the back of the pad or pad-frame a similar metal plate, D, having lugs *d d* at its ends, the lugs *c c* being adapted to fit closely between the lugs *d d*, and then extending a bolt or pin, E, through the four lugs, and securing it in place by a head and nut, as shown. The plate C thus supports the bolt, and the plate D, with the pad attached, swivels upon the bolt, so as to permit a free self-adjusting movement to the pads. Each pair of lugs *c d* may be connected by a single short rivet, if preferred, and the plates and lugs may be arranged substantially within the pads, so as to be wholly or mainly concealed, if desired.

This improvement, while particularly applicable to harness-saddles, is also capable of being employed with good results in riding-saddles, the frame and pads being modified in form and construction to suit the different purpose. In such case the pads will, of course, be attached to the under side of the saddle-frame, and it will be desirable that more than one pad be used on each side of the horse, the several pads on each side lying with their proximate edges parallel to each other, and being connected to the same frame. As the swiveled pads adjust themselves readily to the form of the horse, it is not so necessary to stuff them as heretofore; but pads of wood, metal, or other suitable material may be substituted in place of the stuffed cushions.

Having thus described my invention, I claim—

In a saddle, the plates C D and bolt or pins E, in combination with the curved frame and pads or blocks, substantially as described.

FREIDRICH KOCH.

Witnesses:
JOHN HARTMAYER,
F. SCHUH.