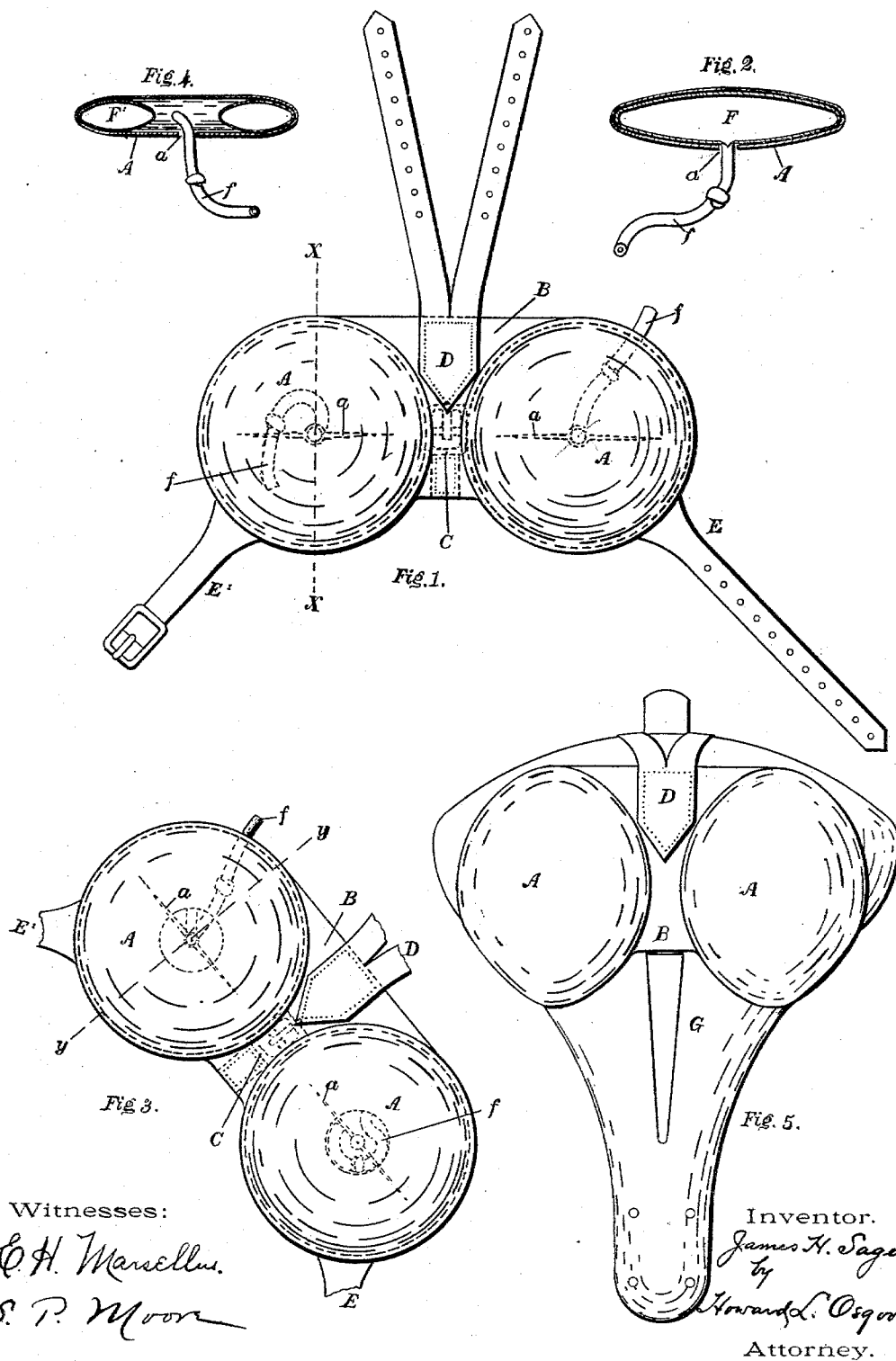


(No Model.)

J. H. SAGER.
CUSHION FOR BICYCLE SADDLES.

No. 562,919.

Patented June 30, 1896.



Witnesses:

C. H. Manellus.
S. P. Moore

Inventor.

James H. Sager
by
Howard L. Osgood
Attorney.

UNITED STATES PATENT OFFICE.

JAMES H. SAGER, OF ROCHESTER, NEW YORK, ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE SAGER MANUFACTURING COMPANY, OF SAME PLACE.

CUSHION FOR BICYCLE-SADDLES.

SPECIFICATION forming part of Letters Patent No. 562,919, dated June 30, 1896.

Application filed September 29, 1894. Serial No. 524,531. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. SAGER, a citizen of the United States, and a resident of the city of Rochester, in the county of Monroe and State of New York, have invented a certain new and useful Cushion for Bicycle-Saddles, of which the following is a specification, reference being had to the accompanying drawings, in which—

10 Figure 1 is a top plan view of one of my cushions. Fig. 2 is a section on the line $x x$ of Fig. 1. Fig. 3 is a top plan view of one of my cushions having annular pneumatic pads. Fig. 4 is a section on the line $y y$ of Fig. 3, and Fig. 5 is a top plan view of a bicycle-saddle showing my cushion fastened thereon.

15 The object of my invention is to provide a detachable cushion for application to bicycle-saddles, by means whereof an easy and hygienic seat is provided and in such a position as to relieve the rider from contact or friction with the saddle at all unnecessary points.

My invention consists in the device and arrangement of parts hereinafter described and 25 claimed.

In the drawings, A A are two bags, preferably circular, and made of leather or of some material having a smooth surface, and provided with a slit or other opening a on the under side of each. These two bags are connected by a web B, fastened to each so as to be held at a suitable distance apart. The web may be of leather, canvas, or other suitable material. On the under side of the web and in the middle thereof is a buckle C. (Shown in dotted lines in Figs. 1 and 3.) To the rear edge of the web are attached suitable straps D, which are adapted to be fastened in the buckle C. On the outer sides of the bags A A 40 are a strap and buckle E E', as shown.

Inside of each bag A is a pneumatic cushion F, Figs. 1 and 2, from which extends a suitable inflating-tube f . The cushions F F are thus held side by side by an inclosing case. In Figs. 3 and 4 an annular cushion-F' is shown.

50 Broadly, pneumatic saddles, single annular cushions, and stuffed cushions are known in this art, but no such device known to me accomplishes the objects of my invention. My flexible cushion fits any saddle and lies closely

upon it. The independent pneumatic pads do not permit air to pass from one to the other and if either is damaged, it may be easily replaced. The pneumatic pads fit any rider, 55 whatever may be his contour, position, or movements, and hence whether the pads are annular or spheroidal, they give the rider a secure seat, which is pleasant in every position which he may take. If a single pneumatic cushion or a single annular cushion is fully 60 inflated, the seat is too rigid and the rider slips about over the surface of the cushion. If it is not fully inflated, pressure on one side causes the air to move to the other side, so that 65 the cushion is not uniform in softness or fit on both sides, and this movement of the air moves the rider in a manner which is not only disagreeable, but interferes with his management of the bicycle; but if the two cushions, 70 as in my device, are independent, an excess of pressure on one of them does not affect the other, and the seat is practicable and pleasant. These independent pneumatic cushions are impressible to fit the rider and enable him 75 to retain a fixed position and a firm seat upon the saddle. Stuffed or padded cushions do not approach these results unless they are made to imitate the form of my device, comprising separate cushions which are annular, 80 that is, depressed, or depressible and elastic at their centers, with a depression between the cushions in the middle of the saddle. Any such cushion is within the scope of my invention. My cushion is therefore flexible 85 to fit different saddles, each pad is impressed or impressible to fit the rider, the cushion is detachable from the saddle and, if preferred, each pneumatic or elastic pad is removable to be replaced. 90

The annular pneumatic cushion shown in Figs. 3 and 4 is preferred by some riders to the form of cushion shown in Figs. 1 and 2, as the central perforation of each cushion enables the rider to retain a fixed position 95 upon the saddle the more easily.

The slits a , through which the cushions are inserted into the bags A, may be closed by lacings, if so desired.

The device, after the cushions have been 100 inflated, is placed upon the top of any bicycle-saddle G, the straps E E' are placed

around and under the saddle-leather, and are buckled to the proper tension; then the strap or straps D are drawn around the cantle end of the saddle and are fastened in the buckle C. The cushion is thus fixed rigidly in place upon the saddle at the cantle end thereof, with the pneumatic pads or cushions on each side of the middle line of the saddle. The rider sits upon the pneumatic cushions, slightly above the level of the saddle G, and the cushions, if inflated to the proper degree and not too much, provide a pleasant, firm, and easy seat. In case the rider desires to use his bicycle for racing, the cushions may be quickly removed by unfastening the straps.

This cushion has obvious advantages for use by riders of both sexes, and enables many persons to ride a bicycle who would be injured by using the ordinary form of saddle.

What I claim is—

1. A detachable cushion for bicycle-saddles consisting of a pair of independent cushions F depressed at their centers, an inclosing case having compartments A adapted to fit said cushion, each compartment having an opening *a* thereinto on the under side thereof, whereby the cushion may be inserted, a flexible connection between said two compartments and means for fastening the cushion upon the cantle end of a bicycle-saddle with the pair of cushions one on each side of the longitudinal medial line thereof.

2. A detachable cushion for bicycle-saddles consisting of a flexible case formed into two independent compartments A A each for

a separate cushion F and having an opening *a* into each compartment on the under side thereof for the insertion of a cushion thereinto, a pair of straps or fastenings E attached to the front end of said case and adapted to encircle the saddle at or about the middle thereof and a pair of separated straps or fastenings D adapted to bend around the cantle-bar and to be fastened to the case on the under side thereof, whereby the cushions F are removable from said case and are fastened into said case by the operation of fastening the same to the bicycle-saddle.

3. A detachable cushion for bicycle-saddles consisting of a pair of independent pneumatic cushions, and a flexible case having compartments and openings thereinto adapted to removably contain said pneumatic cushions side by side and provided with straps or other suitable fastenings whereby the device is adapted to be fastened on the cantle end of a bicycle-saddle.

4. A detachable cushion for bicycle-saddles consisting of a pair of independent annular pneumatic cushions and a flexible inclosing case having compartments and openings thereinto adapted to removably contain said pneumatic cushions side by side and provided with straps or other suitable fastenings whereby the device is adapted to be fastened upon the cantle end of a bicycle-saddle.

JAMES H. SAGER.

Witnesses:

E. H. MARSELLUS,
CHARLES M. WILLIAMS.