

(No Model.)

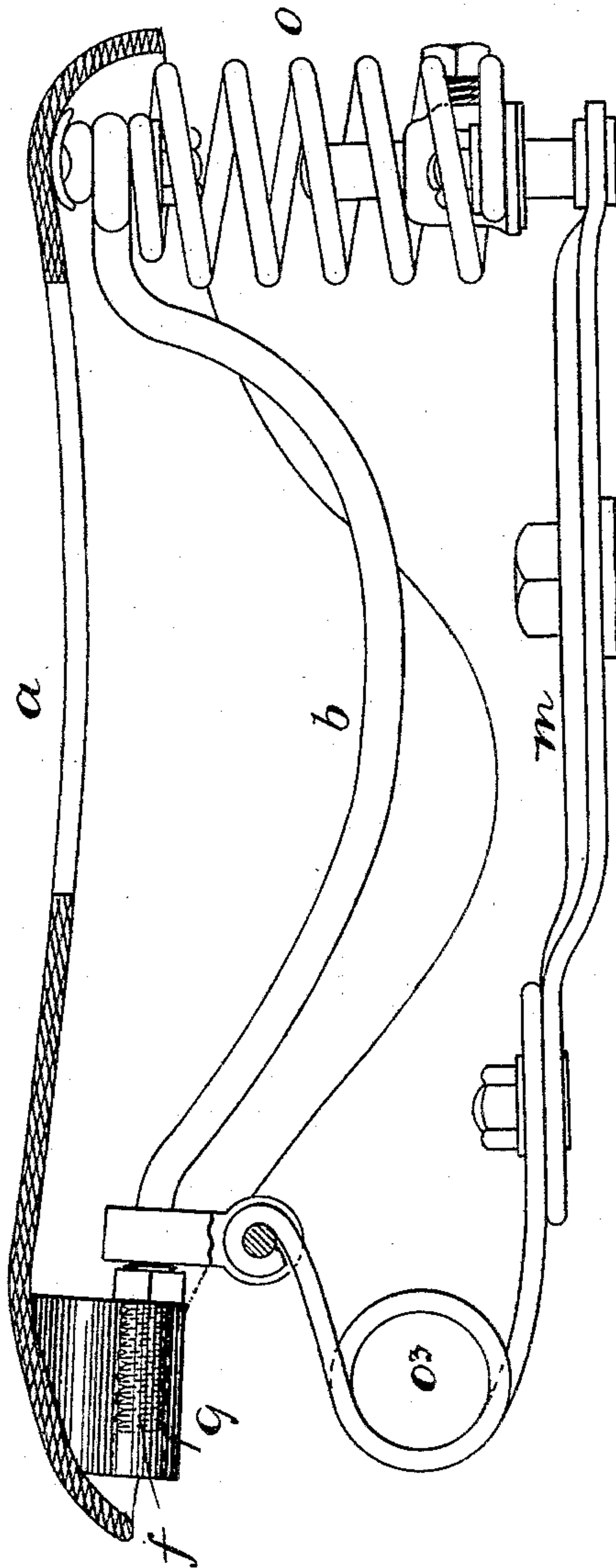
2 Sheets—Sheet 2.

J. B. BROOKS.
VELOCIPED SADDLE.

No. 401,123.

Patented Apr. 9, 1889.

FIG 4



WITNESSES

Henry Cherrett
Wiles & Hughes

INVENTOR

John Boulton Brooks
Connolly Bros ATTYS

UNITED STATES PATENT OFFICE.

JOHN BOULTBEE BROOKS, OF BIRMINGHAM, ENGLAND.

VELOCIPED-SADDLE.

SPECIFICATION forming part of Letters Patent No. 401,123, dated April 9, 1889.

Application filed December 20, 1887. Serial No. 258,510. (No model.) Patented in England November 19, 1886, No. 15,048.

To all whom it may concern:

Be it known that I, JOHN BOULTBEE BROOKS, manufacturer, a subject of the Queen of Great Britain, residing at Birmingham, England, have invented a certain new and useful Improvement in Velocipede-Saddles, (for which a patent has been granted to me in Great Britain bearing date November 19, 1886, and numbered 15,048;) and I do hereby declare the following to be a full, clear, and exact description of the invention, reference being had to the accompanying drawings, which form part of this specification.

This invention consists of an improvement in velocipede-saddles, as hereinafter described, whereby the seats of the said saddles are rendered highly elastic and the saddle itself much improved.

Figure 1 represents, partly in elevation and partly in vertical section, a tricycle-saddle constructed, arranged, and the parts combined according to my invention. Fig. 2 represents an inverted plan or an under side view of the said saddle, but with the base-plate removed and the points of support between the said plate and springs shown in section. Fig. 3 is an end elevation of the pommel end of the saddle, exhibiting the front joint of the diagonally-disposed stay-and-bar connection. The function of stay is to check or limit the swaying motion of the saddle, as would necessarily occur if the saddle were simply mounted upon the top ends only of pillar-springs.

The same letters of reference indicate corresponding parts in Figs. 1, 2, 3, and 4.

a is the seat of the saddle, and $b b$ are two downwardly-curved bars extending from the back to the front end of the under side of the saddle, and which said bars constitute the supporting-framing of the seat and are connected at their rear ends by eyes or loops engaging upon depending screw pins or pegs c , carried by the skirting-framing d , secured to the under side of the back of the saddle, while the front ends, f , of the said curved bars are screwed and pass through a bracket, e , and take into holes made through a depending supporting-bracket, g , secured to the under side of the front of the saddle, and upon the

inner end of the screwed part is a screw-nut, e^2 , whose outer side abuts against the inner face of the bracket g , so that on the said nut being turned the requisite tension or stretching of the saddle-seat is thereby obtained. h is a stay-rod running diagonally from front to rear on the under side of the saddle-seat, and which rod is connected and jointed at its front end by a pin, i , to the carrier-bracket e and at the back end by a joint, j , to the knuckle part of an adjustable bossed eye, k , through which an upright peg or pillar, l , carried at the back end of the base and carrying plate m , passes. The bossed eye carries on its under side a cross-bar or bracket-plate, n , upon which the pillar coiled springs o , at the back under side of the saddle, are supported, as best seen in the plan, Fig. 2. These back springs, o , which are arranged at considerable distances apart, are secured at their upper and lower ends by screw-nuts o^2 , taking upon the ends of screw-pegs, around the stems of which the ends of the coiled springs encircle.

The front end of the saddle is supported by a single pillar coiled spring, o^3 , interposed between the front top side of the carrying-plate m and the front flat end of the stay-rod h , and which said front spring is secured in position by its ends encircling around the shanks of screw-pegs and on the under sides of nuts screwed thereon, carried respectively by the front ends of the bar and carrying-plate, respectively, like that at the back part.

The under side of the base or carrying plate m has a socket, q , which takes upon an ordinary L-bar of a machine and secured thereto by a set-pin. By making the cross-bar or bracket-plate, upon which the lower ends of the back springs are secured, move or slide vertically upon a peg or pillar, l , the back of the saddle can be raised or lowered, or its pitch changed. When the pitch of the saddle is required to be changed, the set-pin k^2 has only to be loosened, when the required adjustment of the seat can readily be made by sliding the bossed eye and the bracket-plate carried by it to the required extent and then screwing up the set-pin k^2 . Thus the saddle-seat is supported primarily upon three coiled springs, two disposed between the back

of the under side of the saddle and the third on the under side of the front of the saddle.

Fig. 4 represents a bicycle-saddle provided with another form of coiled spring at the front in place of a pillar coiled spring.

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

1. In a tricycle or rear-driving bicycle saddle, the combination, with the seat of a saddle, of three coiled springs, $o\ o\ o^3$, and two curved framing or extension bars, b , which latter proceed from front to rear of the under side of the seat of a saddle, with their back ends separated and connected to the under side of the saddle-seat by hanging pins, while their fore parts, which are screwed for tensioning, pass through and take within brackets $e\ g$, respectively, secured on the front under side of the saddle-seat, substantially as described and set forth.

2. The combination, with the seat of a tricycle or rear-driving bicycle-saddle and base-plate m , of an adjustable bracket, k , fixed pillar l , and bracket-affixing screw k^2 , for the purpose substantially as set forth.

3. The combination, with a bicycle-saddle, a , extension-bars $b\ b$, bracket-plate n , and clip t , of two rear-disposed coiled springs, o , substantially as set forth.

4. The combination, with the back supporting-springs of velocipede-saddles, of an adjustable bracket-plate, n , working upon a pillar or upright, l , substantially as set forth.

5. The combination, with an adjustable bracket, k , with fixed peg l , of a bracket-plate, n , substantially as set forth.

6. The combination, with the seat of a saddle, a , extension-bars b , coiled springs o , and base-plate m , with adjusting means $k\ l$, of a stay, h , jointedly connected at its ends to brackets k and e , respectively, as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 8th day of November, 1887.

JOHN BOULTBEE BROOKS.

Witnesses:

HENRY SKERRETT,

MILES E. HUGHES,

Both of Birmingham.