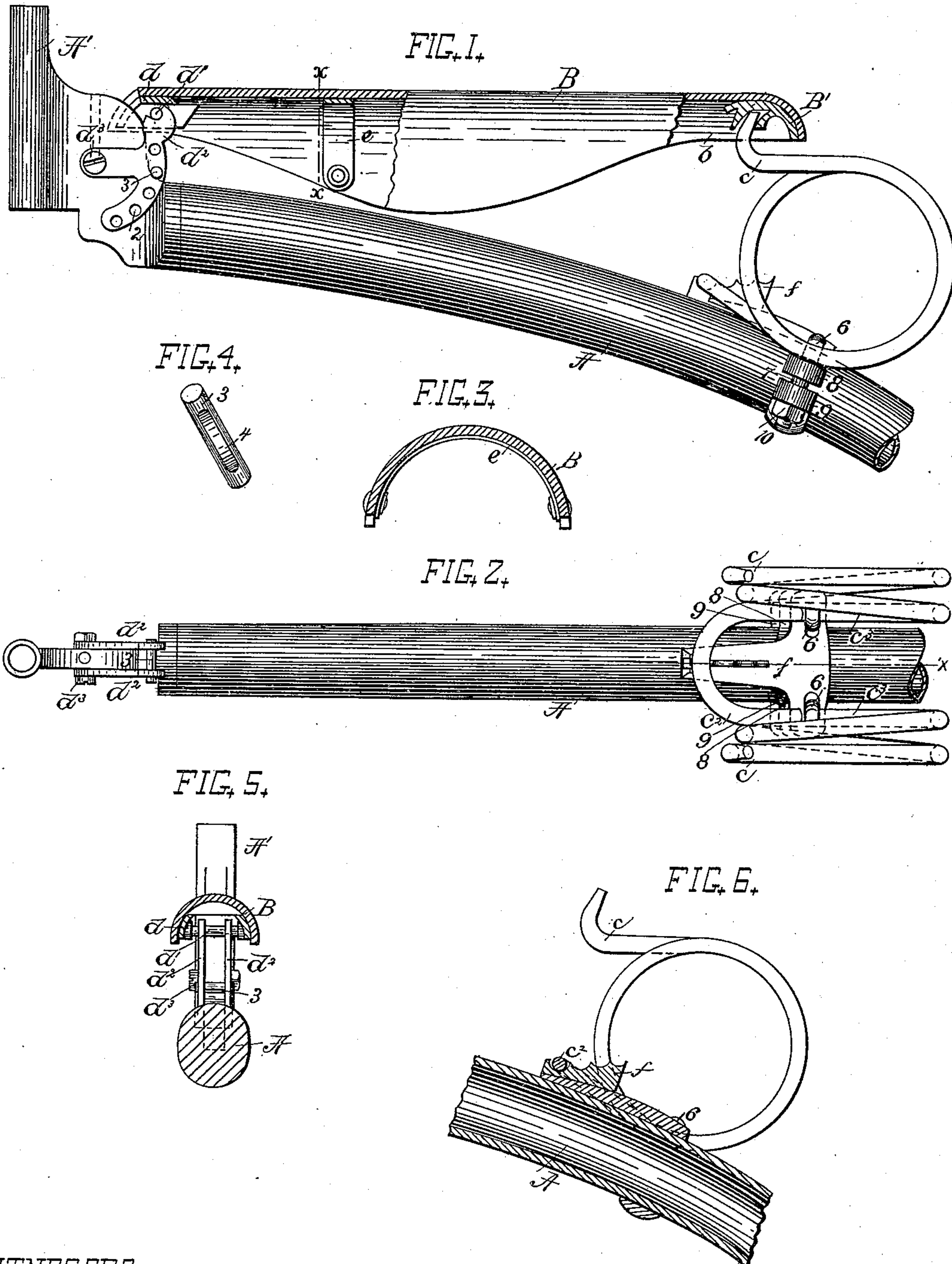


(No Model.)

J. A. LITTLE.
VELOCIPEDE SADDLE.

No. 446,387.

Patented Feb. 10, 1891.



WITNESSES,
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Fred. S. Greenleaf

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UNITED STATES PATENT OFFICE.

JOSEPH A. LITTLE, OF LAWRENCE, MASSACHUSETTS, ASSIGNOR OF ONE-HALF
TO EUGENE A. DODGE, OF SAME PLACE.

VELOCIPEDE-SADDLE.

SPECIFICATION forming part of Letters Patent No. 446,387, dated February 10, 1891.

Application filed July 1, 1890. Serial No. 357,341. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH A. LITTLE, of Lawrence, county of Essex, State of Massachusetts, have invented an Improvement in Velocipede-Saddles, of which the following description, in connection with the accompanying drawings, is a specification, like letters and figures on the drawings representing like parts.

10 This invention relates to a novel saddle for use in connection with velocipedes, bicycles, and the like, and has for its object to improve the same in such manner as to enable the saddle to be adjusted vertically at one or
15 both ends.

In the embodiment of my invention, as herein represented, the cantle of the saddle is supported upon a spring adjustably mounted in bearings on a part of the velocipede or bicycle,
20 and with the said spring I have combined a locking device to keep the said spring in adjusted position, the adjustment of the spring enabling the cantle to be raised or lowered. The cantle is so supported on the said spring
25 as to rock or tip, as will be described. The pommel or front part of the saddle, as shown, is made to engage with an adjustable pommel-support, herein shown as a three-armed or quadrant-shaped lever, preferably fashioned
30 to embrace the neck of the perch.

Figure 1 in side elevation represents a sufficient portion of a velocipede with my improvements added to enable my invention to be understood; Fig. 2, a top or plan view
35 thereof with the saddle removed; Fig. 3, a detail showing the auxiliary supporting-spring to be described, the figure being a section in the line x , Fig. 1. Fig. 4 shows the removable pin; Fig. 5, a sectional detail to the left
40 of the line x , Fig. 1; and Fig. 6, a section in the line x' , Fig. 2.

A represents part of the frame-work of a velocipede or bicycle or like machine, that part to which the saddle B is usually applied.
45 As herein contained, the part A is represented as part of what is known as the "perch," it having a neck A', of usual construction. The saddle B has at its rear end a cantle B', at the under side of which are projections or
50 ears having recesses b , somewhat oblong in shape, or of greater area than the upturned

ends of the springs c , which enter the said recesses, so that the cantle is free to tip to a limited extent upon the upturned ends of the said spring. The front or pommel end of the
55 saddle has a metal block d connected thereto, preferably by rivets, said block having a cross-pin d' , which enters a notch in the upper end of the pommel-holder d^2 , pivoted at d^3 upon the neck, the said pommel-holder, as
60 herein represented, consisting of two three-armed or segment-shaped levers located at opposite sides of the neck. These arms have a series of holes 2, in any one of which may be placed a holding-pin 3, (shown separately
65 in Fig. 4,) the said holding-pin being preferably cut away or slabbed at one side, as at 4, to come against the neck when the weight of the rider upon the saddle depresses the pommel-support, the flattened or recessed portion
70 of the pin by contact with the neck preventing longitudinal movement of the pin, and also preventing the further descent of the pommel-support. By removing the saddle or
75 disconnecting it from the spring c at the cantle and slightly elevating the pommel-support the pin 3 may be removed and inserted in any other hole of the pommel-support, thereby enabling the said support to be raised or
80 lowered to adapt the pommel of the saddle to the requirements of the rider.

The saddle at a short distance back from its pommel is provided at its inner side with an auxiliary spring e , which tends to maintain the saddle spread, and prevents its contraction or expansion at that point under strain of the weight of the rider. The spring
85 c is herein shown as a double spring connected by a loop-like portion c^2 , the two like branches c^3 of the spring being extended loosely through eyes 6 of bolts 7, extended
90 through suitable clips 8 9, which, as represented, embrace the perch, the said bolts receiving upon them nuts 10, the rotation of which in one or the other direction enables
95 the spring to be loosened, so that it may be adjusted backward or forward in the eyes 6, and then be clamped firmly in place. The loop part c^2 of the spring, when the latter is adjusted, travels in the arc of a circle, and
100 therefore occupies different positions with relation to the perch, and to support or sustain

the loop part of the spring in its adjusted (or rather to lock it in its adjusted) position I have provided the wedge *f*, it having preferably several notches or indentations at its upper side, either of which may receive the loop part of the spring, the said notches being made at different distances from the base-line of the wedge, the base-line resting upon the perch.

10 I claim—

1. The neck, the saddle, its pommel and cantle, and a segmental pommel-support pivoted to the neck, an adjusting and locking pin for said support, and the looped spring, combined with clips *8 9*, the eyebolts extended through and connecting the clips, the innermost loops of the spring being extended through and adjusted with relation to the eyes of said bolts, adjusting-nuts for the opposite ends of the bolts, and a notched wedge to co-operate with the loop of the spring and lock it in adjusted position, substantially as described.

2. The saddle and the neck, combined with the adjustable saddle-support made as two three-armed levers, one of which is pivoted to each side of the neck by one arm, and a detachable locking and adjusting device co-operating with the downturned end of one of

the other arms of each lever and adapted to engage the neck between them, substantially as described.

3. The neck, the saddle, its pommel and cantle, a spring, and a segmental pommel-support pivoted to the neck, combined with an adjusting and locking pin for the pommel-support and a notched locking-wedge for the spring, substantially as described.

4. The neck, the saddle, and a cross-pin *d'* at the pommel of said saddle, combined with the adjustable segmental pommel-support consisting of two three-armed levers located at opposite sides of and pivoted to the neck by one arm of each, a notch in the upper arm of each lever, into which enters and bears the cross-pin *d'*, and a detachable locking and adjusting device co-operating with the downturned end of one of the other arms of each lever and adapted to rest upon the upper side of the neck between said arms, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH A. LITTLE.

Witnesses:

EUGENE A. DODGE,
WILLIAM FOSTER.