

(No Model.)

E. R. DE WOLFE.
VELOCIPED SADDLE.

No. 455,014.

Patented June 30, 1891.

Fig. 1.

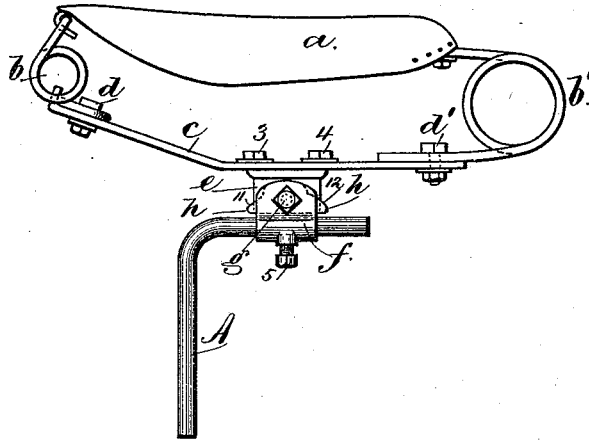


Fig. 2.

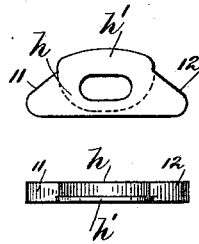
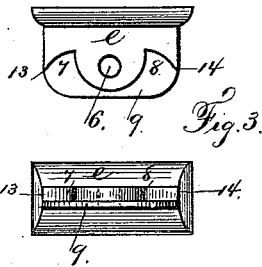
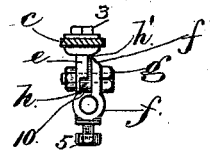


Fig. 4.

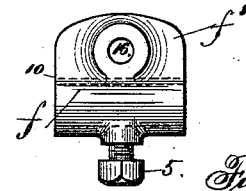


Fig. 5.

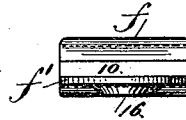


Fig. 6.

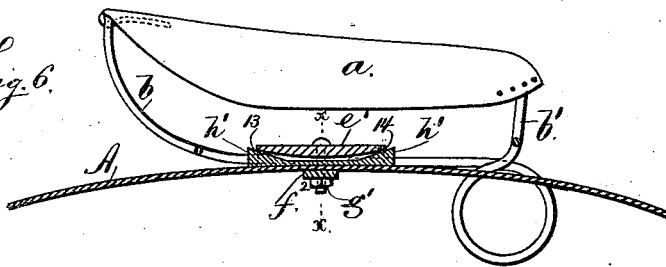
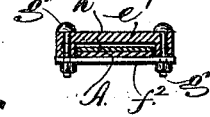


Fig. 7.



Witnesses
Harold Serrell
Chas H Smith

Inventor
Edward R De Wolfe
per Lemuel W. Serrell

UNITED STATES PATENT OFFICE.

EDWARD R. DE WOLFE, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND
GEORGE R. BIDWELL, OF SAME PLACE.

VELOCIPEDE-SADDLE.

SPECIFICATION forming part of Letters Patent No. 455,014, dated June 30, 1891.

Application filed October 11, 1890. Serial No. 367,831. (No model.)

To all whom it may concern:

Be it known that I, EDWARD R. DE WOLFE, a citizen of the United States, residing at the city, county, and State of New York, have invented a new and useful Improvement in Velocipede-Saddles, of which the following is a specification.

In velocipede-saddles as applied to the now popular class of Safety bicycles, and to the class known as the "Star" pattern, wherein the small steering-wheel is forward of the large driving-wheel, it is desirable to tilt the saddle in line with its length to raise or lower the saddle to the form of the rider and to make his position easy and comfortable. Devices have heretofore been made for this purpose, but the same have not been of general application.

My invention relates to a saddle for the aforesaid types of velocipedes that is capable of being tilted at the front or back ends for the purposes named; and my invention consists in the combination, with the flexible seat, springs, and connecting-plate between the springs, and the clip-base plate or equivalent device adapted to be connected to the frame or saddle-post of the velocipede, of a sliding wedge-plate having reverse inclines located and acting between the aforesaid plates and clamped by a bolt, whereby the parts can be adjusted and the saddle or flexible seat adjusted and tilted or inclined in either direction at pleasure.

My improvements are primarily adapted for use on the Safety type of bicycle; but the same can, with slight modifications, be applied upon the types of velocipedes known in the market by the names of "Star" and "Eagle."

In the drawings, Figure 1 is an elevation showing my improvement. Fig. 2 is an end view of the same without the saddle, and Figs. 3, 4, and 5 are detailed elevations and plans of the parts separately in larger size. Fig. 6 is an elevation and longitudinal section of a modification of my improvement, and Fig. 7 is a cross-section at *xx* of the same.

A represents the saddle-post of a velocipede of the Safety type and also the upper member

of the frame of a velocipede of the Star type, to both of which the saddle is to be fastened.

a represents the flexible suspension saddle or seat; *b*, the front spring; *b'*, the back spring; *c*, the under connecting-plate, and *d d'* the bolts and grips for connecting the front and back springs to the plate *c*. These parts are of any usual and well-known construction and do not require further description.

To the under side of the plate *c* is secured a tilting block *e* by bolts 3 4, and a clip base-block *f* is provided, having an opening to receive the saddle-post A and a bolt 5, by which it is securely held to said saddle-post. The tilting block *e* has a central opening at 6, recessed portions 7 8, and a face-plate at 9, and the base-block *f* has a horizontal flat face or portion 10 and a vertical edge or extension *f'*, through which is an opening 16, and a clamping-bolt *g* passes through the openings 6 and 16 and secures the blocks *f* and *e* together, and also acts as a central pivot, on which the tilting block *e* swings. These parts are shown separately in Figs. 3, 4, and 5.

Between the blocks *f* and *e* are a movable wedge-plate *h*, having reverse inclines at its respective ends, and a plate or extension *h'*, in which is an elongated opening through which the bolt *g* passes. The movable wedge-plate *h* lies in the recesses 7 8 of the block *e*, and the edges 13 14 of said recesses bear upon the faces of the reverse inclines, and the plate *h'* is between the opposing faces of the blocks *e f'*, and is held securely, so that it cannot move when the bolt *g* is clamped. The wedge-plate *h* has a flat base and rests upon the portion 10, and when the bolt *g* is loosened the wedge-plate can be moved in either direction to cause the saddle to tilt and assume an inclined position in either direction.

In the modification illustrated in Figs. 6 and 7 I employ a wedge-plate *h'*, having reverse inclines at the ends acting upon the edges 13 14 of the tilting block *e'*, to which tilting block *e'* the springs *b b'* are connected. The wedge-plate *h* is preferably curved to conform to the upper member A of the frame of a velocipede of the Star, Eagle, or other type. A clip-block *f²* and bolts *g'*, one at

each side, secure the tilting block and saddle to the aforesaid frame, the loosening of which bolts permits the wedge-plate *h'* to be shifted and the saddle tilted, after which the bolts are tightened.

It will be apparent that the wedge-plate with reverse inclines as the essential feature of my invention is equally adapted to the various types of velocipedes herein named, and that the same is readily and quickly operated to tilt the saddle to adjust it to the form of the rider and make him easy and comfortable.

I claim as my invention—

1. The combination, with the tilting block having edges 13 14, of the saddle-leather and the springs between the block and saddle-leather, a base-block connecting the saddle to the velocipede, and a movable wedge-plate having reverse inclines, against which the edges 13 14 of the block bear for tilting the saddle and clamping mechanism, substantially as set forth.

2. The combination, with the seat *a*, springs *b b'*, plate *c*, and tilting block *e*, of the clip base-block *f*, adapted to be secured to the saddle-post, the clamping-bolt *g*, and a mov-

able wedge-plate *h*, having reverse inclines and located between the blocks *e* and *f* and acting upon the block *e* in the manner and for the purposes set forth.

3. The combination, with the seat *a*, springs *b b'*, plate *c*, and tilting block *e*, of the clip base-block *f*, adapted to be secured to the saddle-post, the clamping-bolt *g*, and a movable wedge-plate *h*, having reverse inclines, and a plate *h'* between and clamped by the blocks *e* and *f*, said plate *h* acting upon the block *e* in the manner and for the purposes set forth.

4. The tilting block *e*, having an opening at 6, recessed portions at 7 8, a face-plate 9, and edges at 13 14, in combination with the clip base-block *f*, having an extension *f'* with an opening and a flat portion 10, the movable wedge-plate *h*, having reverse inclines and the perforated plate *h'*, and a bolt *g* for clamping the parts, substantially as set forth.

Signed by me this 3d day of October, A. D. 1890.

E. R. DE WOLFE.

Witnesses:

HAROLD SERRELL,
GEO. T. PINCKNEY.