(No Model.)

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SUPPORT FOR BICYCLE SADDLES.

No. 582,607. Patented May 11, 1897.

Fig. 1

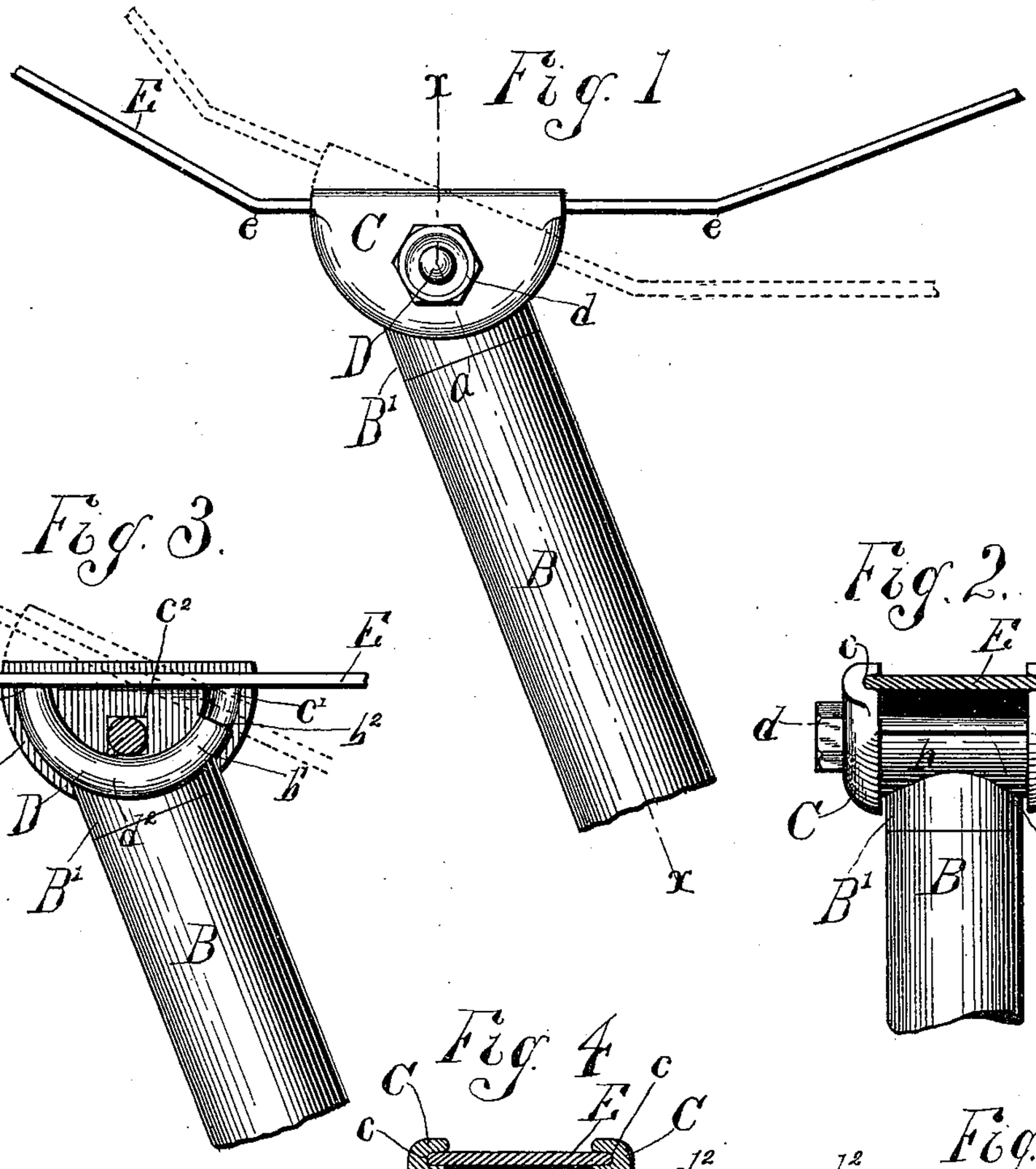


Fig. 3.

Fig. 2.

Fig. 4

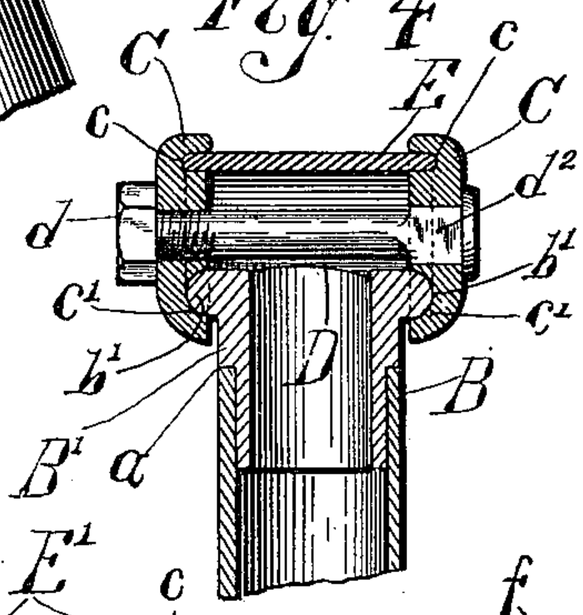


Fig. 6.

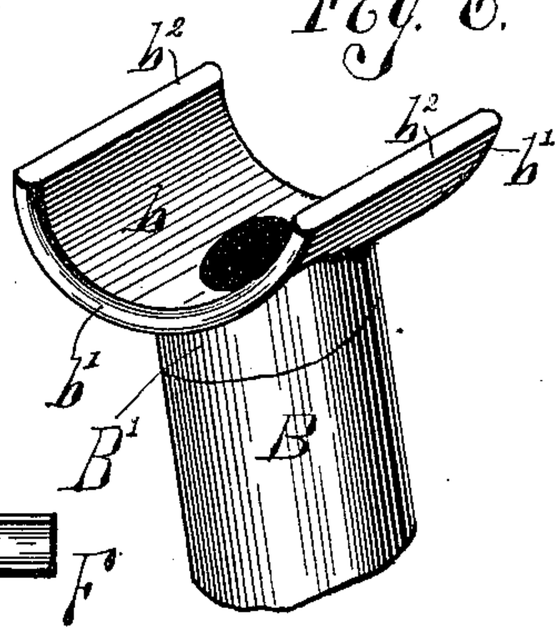


Fig. 5.

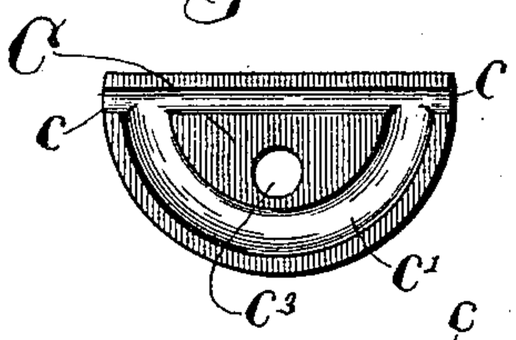


Fig. 7.

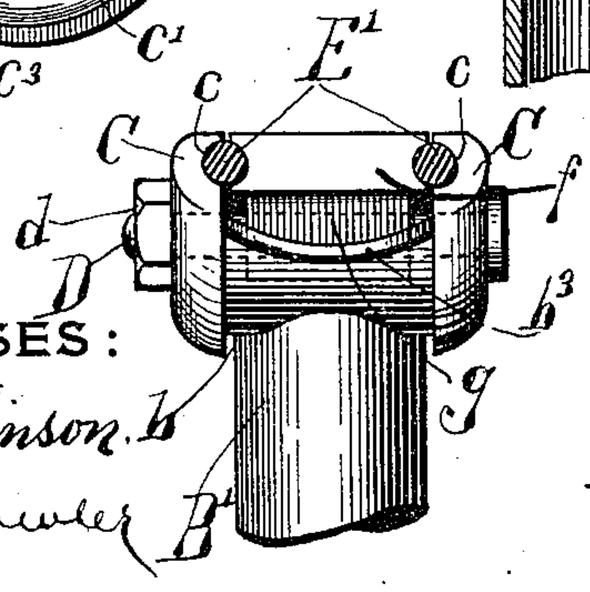
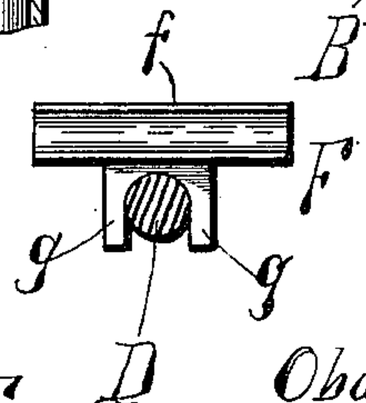


Fig. 8.



WITNESSES:

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UNITED STATES PATENT OFFICE.

OBADIAH SEELY, OF SYRACUSE, NEW YORK; HORATIO S. SEELY, ADMINISTRATOR OF SAID OBADIAH SEELY, DECEASED, ASSIGNOR TO E. C. STEARNS & CO., OF SAME PLACE.

SUPPORT FOR BICYCLE-SADDLES.

SPECIFICATION forming part of Letters Patent No. 582,607, dated May 11, 1897.

Application filed June 21, 1895. Serial No. 553,532. (No model.)

To all whom it may concern:

Be it known that I, OBADIAH SEELY, a citizen of the United States, residing at Syracuse, in the county of Onondaga and State of New York, have invented a new and useful Support for Bicycle-Saddles; and I do hereby declare that the following, in connection with the accompanying drawings, is a full, clear, and exact description of the invention.

My invention relates to the support for a bicycle-saddle; and it consists in a novel combination of seat-post and clamp, by the use of which the saddle may be easily adjusted forward or back on the seat-post or may be tilted at a greater or less angle therewith. In my invention the saddle-spring is strongly gripped, the adjustment is made quickly and easily, and the device is strong, light, simple, and cheap. The essential features are a seat-post with a supporting member brazed to the top thereof whose curved edges act as guides for the clamping-pieces and are firmly gripped by them; a clamp made up of two side pieces, preferably of half-moon shape, having their outer faces smooth and their inner provided with two grooves, one semicircular to fit the side edge of the supporting member and to slide thereon when loosened, and a second horizontal groove near its top edge and parallel thereto which receives the edge of the flat saddle-spring; also, a bolt by which the side pieces are drawn together to grip the edges of the supporting member and the saddle-spring.

The fact that my combination seat-post and clamp is very simple, light, and easy to adjust by means of a single bolt whose nut is easily reached and operated from the side is in itself a great advantage. Its principal feature, however, is that without increasing the weight or complicating the construction the saddle may be adjusted horizontally forward or back to a sufficient extent without altering the angle at which it is set, or it may be adjusted at a different angle without changing its horizontal position, or both its horizontal position and its angle may be altered simultaneously, these adjustments being performed easily and simply. When the clamp is tightened by tightening the bolt, the saddle is gripped and held in the desired position with great power, firmness, and rigidity.

My invention will be better understood by reference to the accompanying drawings, in which the same letters refer to the same parts in all the views.

Figure 1 is a side elevation of my supporting device, the saddle-spring being shown in position and the angular adjustment being indicated by means of dotted lines. Fig. 2 is a front elevation, partly in section. Fig. 3 is a side elevation, one plate being removed. Fig. 4 is a vertical section on line $x\ x$. Fig. 5 is an elevation of the inner face of one of the clamping-plates. Fig. 6 is a perspective view of the top of the seat-post with the integral supporting member. Fig. 7 is an elevation of my invention used with a saddle having two round springs, and Fig. 8 a side elevation of the blank employed therewith.

B is the saddle-post, to which is attached firmly at a the supporting member B′, whose upper portion b is in the form of a semicircular band substantially equal in width to the saddle-spring E, and having the rounded side edges $b'\ b'$.

C C are the two side plates of the clamp, having semicircular curved grooves $c'\ c'$, fitting $b'\ b'$, and horizontal grooves $c\ c$, parallel to its upper edge and adapted to receive the portion $e\ e$ of the saddle-spring E.

D is a bolt made square at one end d^2 for taking in the square hole c^2, by which or by some similar means rotation of the bolt is prevented. The other end of D passes through round hole c^3 in opposite plate C and is provided with a nut d, by which the plates are clamped on b and on E. It is not necessary to show the entire saddle, the portion of the spring E shown in Figs. 1 and 3 serving to indicate its position in the clamp. When it is desired to change the position of the saddle, nut d is loosened and the saddle adjusted forwardly or rearwardly along its portion $e\ e$, or it may be tilted to rest at a different angle to the seat-post, as indicated by dotted lines in Figs. 1 and 3, the side edges $b'\ b'$ of b acting as guides, to which plates C C are fitted and on which they slide. When the saddle

has been slipped or tilted into the desired position, the nut is tightened, which may be done conveniently by the wrench from its position on the side of the clamp, and the saddle is by this single operation clamped with great rigidity in the desired position to the top of the seat-post.

It will be noticed that the ends b^2 b^2 of b are flat radial faces, so that when the saddle is thrown backward as far as possible or forward as far as possible saddle-spring E rests against a flat surface b.

Figs. 7 and 8 show my invention used with a saddle having two round springs. In this case the side plates C C are provided, as before, with the grooves c c to fit the round springs. I also provide a detached blank F to fit between the springs that they may be clamped firmly. This blank F consists of a longitudinal member f, flat on top, provided on its longitudinal side edges with side grooves to fit the springs and on its under side with two integral lugs g g, depending in front and rear of bolt D, to prevent the blank being slipped forwardly or rearwardly out of place. Where my seat-post and clamp are to be used with saddles having two round springs, the transverse edges of b may, if desired, be cut out or curved, as shown at b^3 in Fig. 7.

Having thus fully described my invention, what I claim, and desire to protect by Letters Patent, is—

In a combined seat-post and clamp for a bicycle-saddle, the combination with the upper member of the post formed with a semicircular band, of the segmentally-grooved clamping-plates fitted thereto and adapted to turn thereon, a saddle-spring having its sides seated in horizontal grooves of the clamping-plate, a blank for holding the spring in said grooves and provided with dependent lugs seated upon the clamping-bolt, and the clamping-bolt for securing the parts together, substantially as specified.

In witnesss whereof I have hereunto set my hand, in the presence of two attesting witnesses, at Syracuse, in the county of Onondaga, in the State of New York, this 7th day of June, 1895.

OBADIAH SEELY.

Witnesses:
T. W. GALLAVIN,
ALBERT P. FOWLER.