(No Model.)

F. H. BOLTE.

BICYCLE SADDLE.

No. 457,835. Patented Aug. 18, 1891.

Fig. 1.

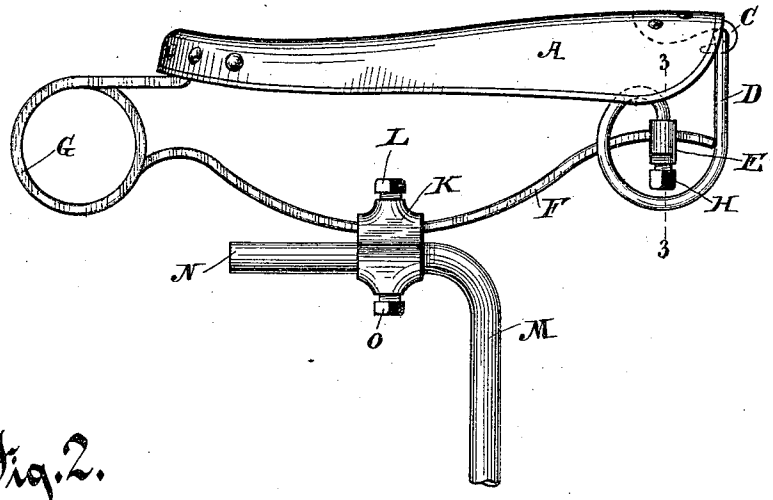


Fig. 2.

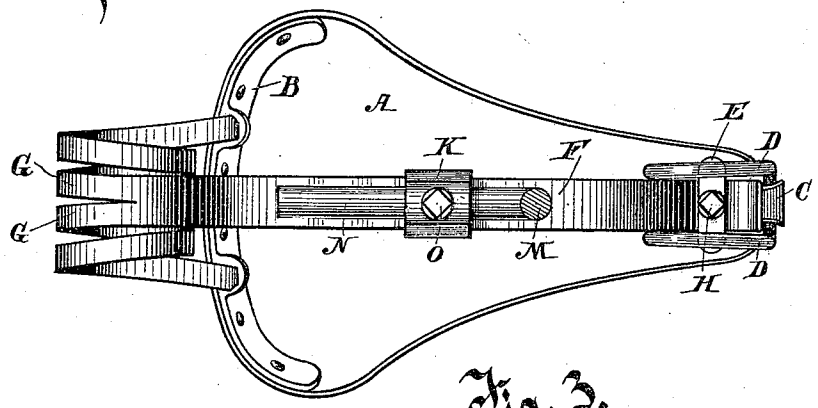
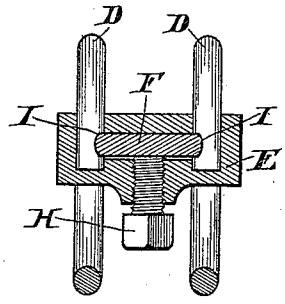


Fig. 3.



Witnesses.

C. F. Keeney,

Anna C. Faust.

Inventor.

Frank H. Bolte

by

Curtis T. Benedict

Attorney.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FRANK H. BOLTE, OF MILWAUKEE, WISCONSIN, ASSIGNOR OF ONE-HALF TO PARKER H. SERCOMBE, OF SAME PLACE.

BICYCLE-SADDLE.

SPECIFICATION forming part of Letters Patent No. 457,835, dated August 18, 1891.

Application filed February 14, 1891. Serial No. 381,444. (No model.)

To all whom it may concern:

Be it known that I, FRANK H. BOLTE, of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented a new and useful Improvement in Bicycles, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

My invention relates to improvements in the support of the saddle of a bicycle; and it consists, principally, of and in a single piece of flat bar or strap steel, whereby the number of supporting parts is reduced to the minimum. A spring is provided that has a large amount of yielding length and surface, and great steadiness of the parts secured thereto is obtained by reason of the wide and flat bearing-surface of the supporting-arm.

In the drawings, Figure 1 is a side elevation of a bicycle-saddle with my supporting devices therewith. Fig. 2 is an under side view of my improved saddle-supporting device. Fig. 3 is a transverse vertical section on line 3 3 of Fig. 1.

The saddle A is constructed of leather and is provided with a metal bracket or strengthing-piece B, secured rigidly thereto on the under side at the rear or cantle end of the saddle. At the front or pommel end the saddle is provided with a hook C, arranged to receive and hold the loop of a bifurcate rod D, the lower ends of which are volute and at a little distance apart enter the head-block E from the upper side and are secured removably therein. The supporting-arm F is constructed of a flat bar or strap of steel curved downwardly and having its lowest point of curvature nearly centrally from front to rear of the saddle A, below which the arm is located. At a point in the arm about opposite the rear end of the saddle the strap is split centrally to its extreme rear end, forming bifurcate parts G G, which are revoluted, and their extremities are inserted and fixed in the bracket B. The front end of the arm F is inserted movably in an aperture therefor in the head-block E and is secured adjustably therein by a set-screw H. The transverse aperture through the head-block E, in which the arm F is inserted, is between and intersects partially the vertical apertures in the head-block, in which the ends of the rod D are inserted. Recesses I I are formed in the bifurcate ends of the rod D opposite the arm F, into which recesses the arm F is inserted in inserting it in the head-block E while the ends of the rod D are therein, and the rod is thereby locked in place in the head-block. The entire arm F, including the bifurcate revolute parts G, is elastic, forming a spring having a large amount of yielding extent, while the arm also serves as a support for the saddle. A block K moves freely on the arm F, being clamped thereto adjustably by the set-screw L. The supporting-post M has a horizontal faced arm N, which enters the block K and is secured thereto adjustably by a set-screw O. The arm F and the saddle thereon are supported through the block K on the post M, and as the block K is usually located about centrally from front to rear of the saddle and of the arm F, and as the arm F curves upwardly in front of the block K and also at the rear of the block, the weight of the person depressing the spring carries the saddle down very nearly horizontally, the revolute spring portion G of the arm being adapted to properly support and sustain the heavier weight ordinarily located near the rear of the saddle.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a saddle of a bicycle, of an elastic supporting-arm formed in a single piece of strap-steel flat in transverse section, curved downwardly, medially, longitudinally, and split at its rear end, forming furcate parts which are revolute, curving upwardly, and are secured at their extremities rigidly directly to the rear end of the saddle, and suitable means securing the front end of the arm yieldingly to the front end of the saddle, substantially as described.

2. In a bicycle, the combination, with a saddle, of an elastic supporting-arm constructed of a strap or flat bar of elastic metal

curved downwardly, medially, and bifurcate and revolute at its rear end, a supporting-rod connected to the front end of the saddle, and a head-block in which the extremities of the rod are secured and in which the front end of the spring is inserted adjustably, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK H. BOLTE.

Witnesses:
C. T. BENEDICT,
ANNA V. FAUST.