

(No Model.)

O. HANSON.
BICYCLE SADDLE.

No. 471,744.

Patented Mar. 29, 1892.

Fig. 1

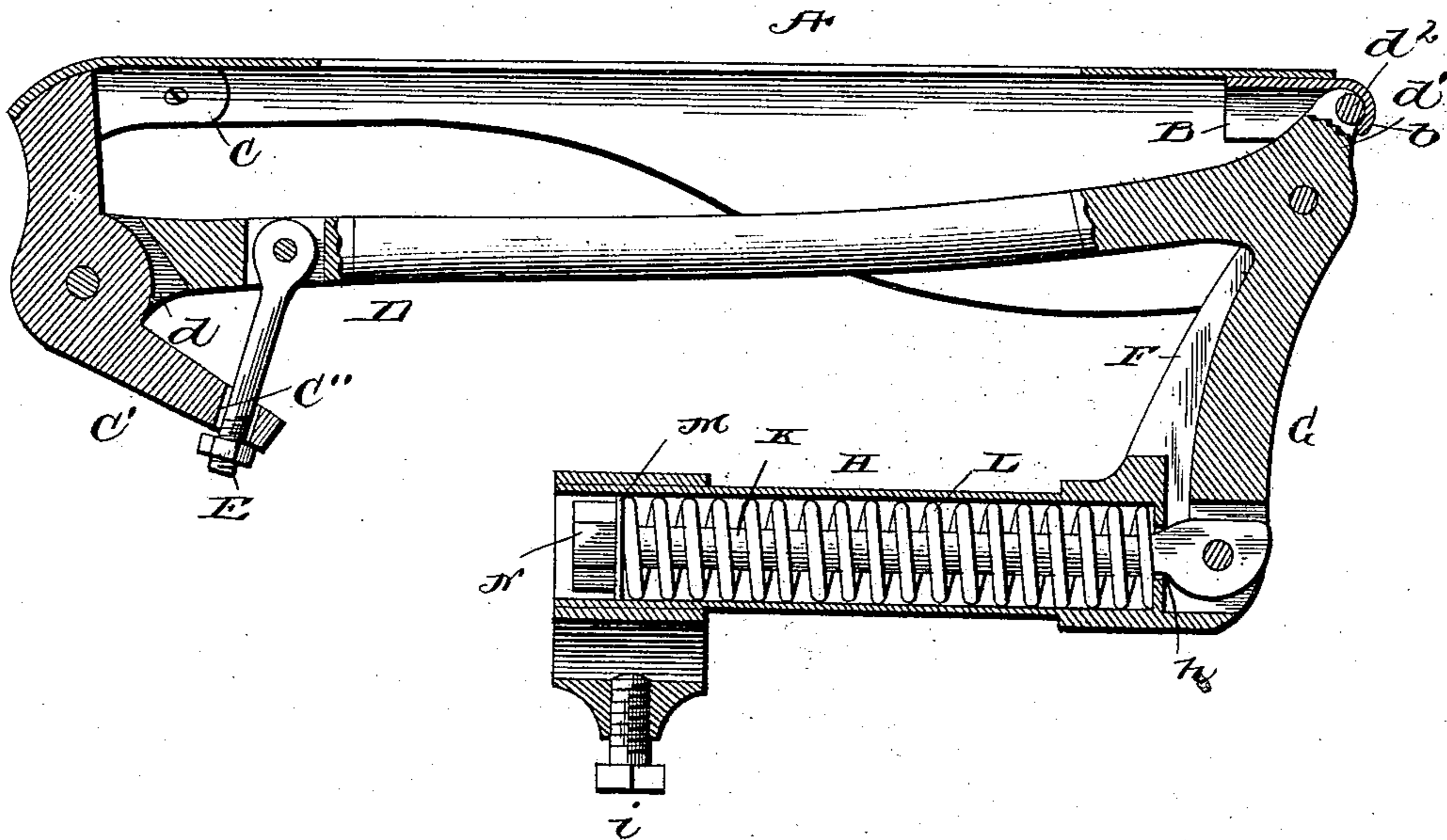


Fig. 2

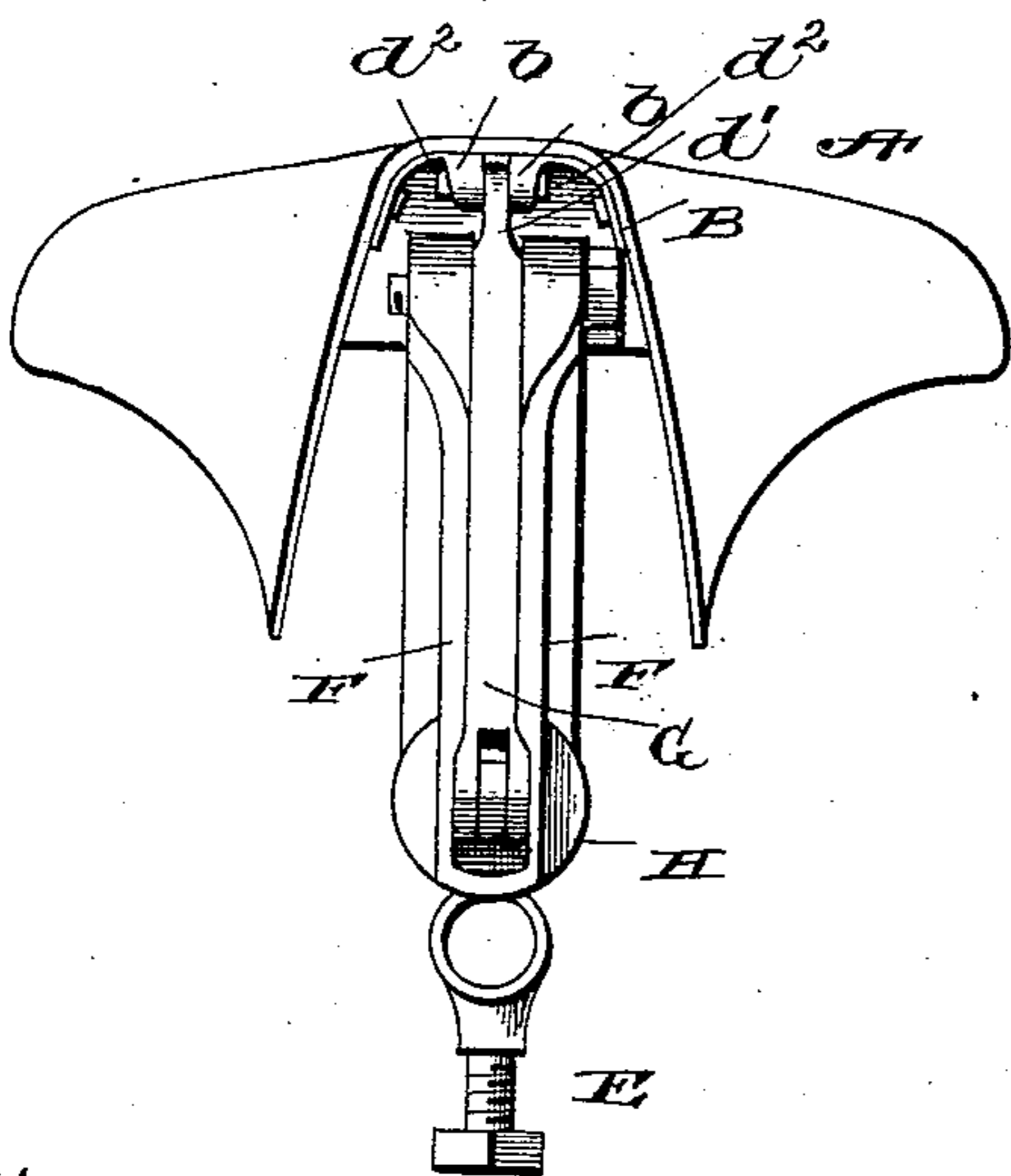
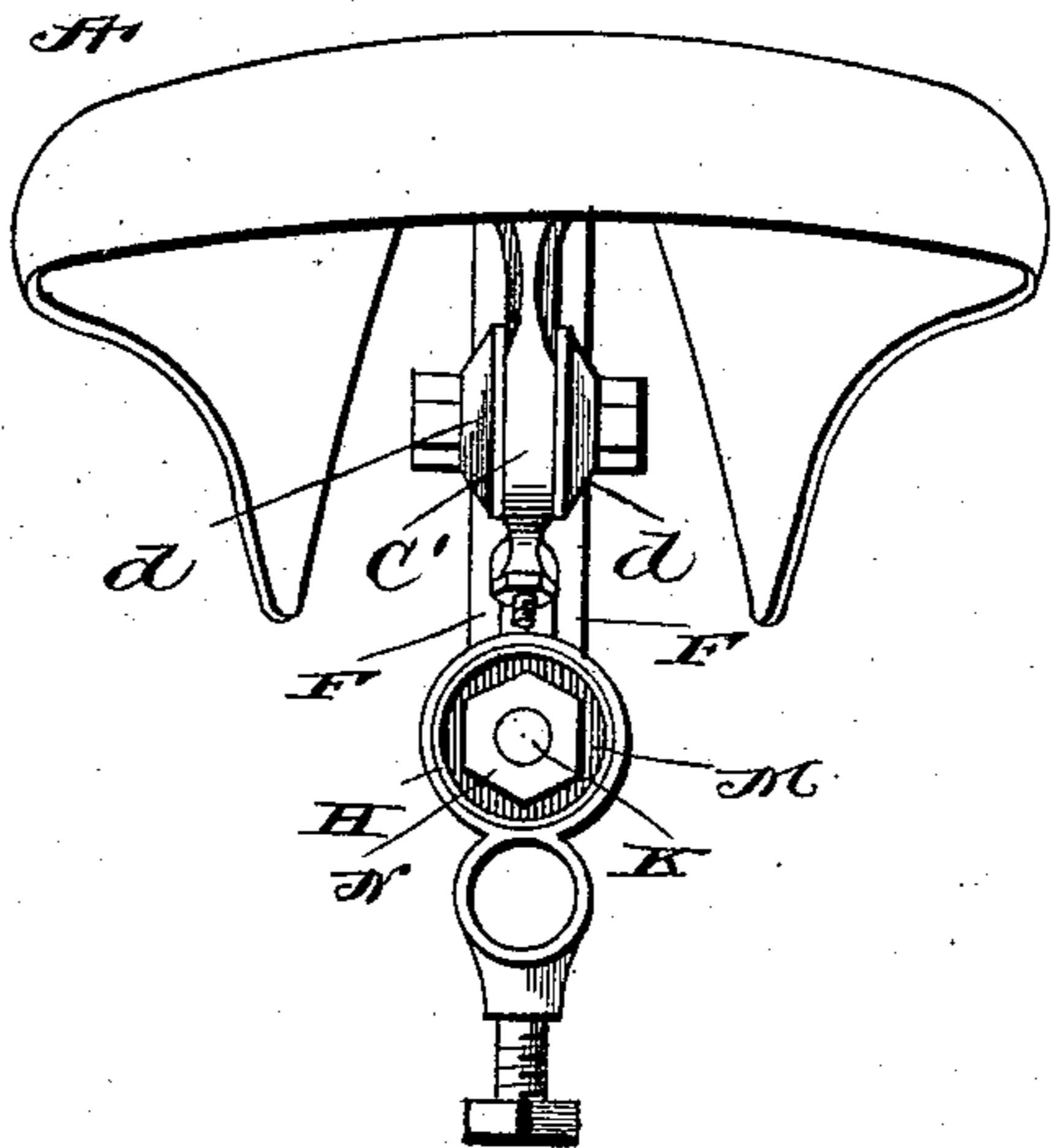


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

OLAUS HANSON, OF MARSHALL, MICHIGAN, ASSIGNOR TO THE FIRST NATIONAL BANK, OF SAME PLACE.

BICYCLE-SADDLE.

SPECIFICATION forming part of Letters Patent No. 471,744, dated March 29, 1892.

Application filed August 13, 1891. Serial No. 402,561. (No model.)

To all whom it may concern:

Be it known that I, OLAUS HANSON, a citizen of the United States, residing at Marshall, in the county of Calhoun and State of Michigan, have invented certain new and useful Improvements in Bicycle-Saddles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to certain new and useful improvements in bicycle-saddles; and it consists in the novel construction and arrangement of parts hereinafter fully described, and afterward definitely pointed out in the claims, due reference being had to the accompanying drawings, forming a part of this specification, wherein—

Figure 1 is a vertical longitudinal section of my improved saddle. Fig. 2 is a front end view, and Fig. 3 a rear end view.

Referring to said drawings, A indicates the saddle-cover constructed as usual, to the front and under side of which is riveted or otherwise suitably secured a curved plate B, provided with two forwardly-projecting hooks *b b*, for the purpose hereinafter described.

C indicates a metallic cantle riveted or otherwise secured to the rear under side of the saddle-cover and having formed integral therewith a bent lever C'. Said lever at about its center is pivoted between two ears *d d*, formed upon the rear end of an elbow-lever D, and at its lower end is perforated, as at C'', through which perforation passes the threaded end of a bolt E, the upper end of said bolt being pivoted in a slot formed in the lever D. A nut *e* engages the threaded end of the bolt E for the purpose hereinafter described. The front of the lever D is provided with a projection *d'*, from each side of which projects a lug *d*². The hooks *b b* engage said lugs, and by tightening or loosening the nut *e* on the bolt E the saddle-cover A can be strained to the desired tension. The lever D is at its front end pivoted between two arms F F and is provided with a downwardly and inwardly projecting arm G.

H indicates a cylinder open at its rear end and provided at its front end with a perforation *h*. From the front end of said cylinder rise

the two arms F F, between the upper ends of which is pivoted the lever D, and the rear end of said cylinder is provided with a collar I, into which is tapped a set-screw *i*, by means of which the saddle is secured to the post of the bicycle. Through the cylinder H passes a rod K, which at its forward end is pivoted to the lower end of the arm G of the lever D and is surrounded by a coiled spring L, which at its forward end bears against the front end of the cylinder and at its rear end against a washer M, held in place by means of a nut N engaging the rear screw-threaded end of the rod K. By adjusting the nut N the tension of the spring M can be varied to suit the weight of the rider or the nature of the road traveled upon. By hanging the saddle in the manner described great ease and comfort in riding are obtained, and liability of the rider being thrown upward or forward and danger of losing his pedals is obviated.

For the sake of lightness and strength the lever D may be made partly hollow and its bifurcated ends secured thereto by riveting or otherwise; but it will be evident that it may be made in one piece and solid.

Having described my invention, what I claim is—

1. In a bicycle-saddle, the combination of a cylinder provided with means for attaching the same to the post of a bicycle and containing a spring, a standard extending upward from said cylinder, an elbow-lever pivoted to said standard and connected at its lower end to the spring, and a saddle-cover supported entirely upon the upper member of said elbow-lever, substantially as shown and described.

2. In a bicycle-saddle, the combination of the lever D, having secured to its forward end the front of the saddle-cover A, the cantle C, secured to the rear of said saddle-cover and provided with a downwardly-projecting bent lever C', said lever being pivoted to the rear end of the lever D and perforated at its lower end, and a threaded bolt pivoted at its upper end to the lever D and at its lower threaded end passing through the perforated end of the bent lever C' and engaged by an adjusting-nut *e*, substantially as described.

3. In a bicycle-saddle, the combination, with

the cylinder H, containing a spring and provided with means for attachment to the post of the machine and having the upwardly-extending bifurcated standard F, of the elbow-lever D, pivoted to the upper end of the standard F and engaging said spring, said lever being provided at its forward end with two lugs $d^2 d^2$ and at its rear end with two ears $d d$, and the saddle-cover A, provided at its front end with two hooks $b b$, adapted to engage said lugs and having secured to its rear the cantle C, provided with a downwardly-projecting bent lever C', pivoted between the ears $d d$, the lower end of which engages the threaded end of the bolt E, pivoted to the lever D and provided with an adjusting-nut e , substantially as described.

4. In a bicycle-saddle, the combination, with the cylinder H, provided with means for attachment to the post of a bicycle and carrying a bifurcated standard F, of the elbow-lever D, pivoted to said standard, the saddle-cover A, entirely supported upon the upper member of the elbow-lever, the rod K, located

within the cylinder H and connected to the lower end of the elbow-lever D, and the spring L, located within the cylinder and surrounding said rod, and a nut engaging the threaded end of the said rod to adjust the tension of said spring, substantially as described.

5. In a bicycle-saddle, the combination of a cylinder provided with means for attaching the same to the post of a bicycle and containing a spring, a standard extending upward from said cylinder, an elbow-lever pivoted to said standard and having its lower end connected to the spring, and a saddle-cover secured at its forward end to the forward end of the upper member of the elbow-lever and adjustably secured at its rear end to the rear end of said upper member, substantially as shown and described.

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

OLAUS HANSON.

Witnesses:

WILLIAM D. ADAMS,
JOHN K. HOGAN.