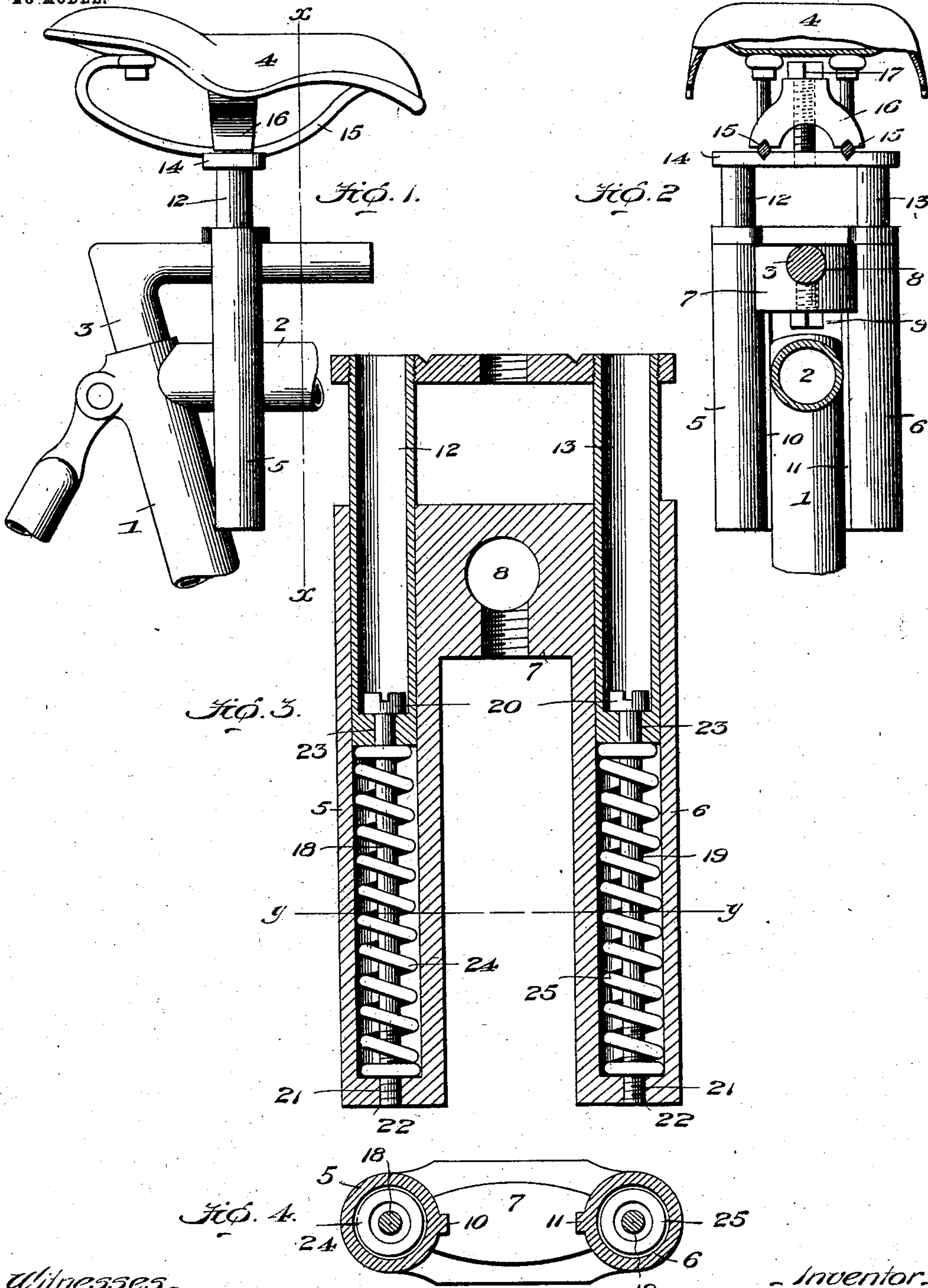


No. 721,167.

PATENTED FEB. 24, 1903.

C. H. EDDY.
BICYCLE SEAT SUPPORT.
APPLICATION FILED APR. 26, 1902.

NO MODEL.



Witnesses.

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UNITED STATES PATENT OFFICE.

CHARLES H. EDDY, OF SCHENECTADY, NEW YORK.

BICYCLE SEAT-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 721,167, dated February 24, 1903.

Application filed April 26, 1902. Serial No. 104,766. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. EDDY, a citizen of the United States, residing at Schenectady, county of Schenectady, and State of New York, have invented certain new and useful Improvements in Bicycle Seat-Supports, of which the following is a specification.

My invention relates to bicycle-seat supports.

The object of the present invention is the provision of an improved seat-support for bicycles which will relieve the rider of all jolting occasioned by the machine passing over obstacles or rough places, which will be of strong and durable construction and so arranged that a cushioning effect may be had, while permitting the bicycle to be lifted by the saddle whenever desired without injury to any of the parts, which will, owing to its peculiar adaptation of the bicycle-framing, be braced and sustained, and which will afford means for all necessary adjustment to suit the convenience of the rider.

Having the foregoing and other not specifically-mentioned objects in view, the invention consists of a bicycle seat-support comprising certain improved features and novel combinations and adaptations of parts set forth in detail hereinafter.

In the accompanying drawings, Figure 1 is a side view showing the device applied to the seat-post and adjacent framing of the bicycle; Fig. 2, a view on line *x x* of Fig. 1, showing how the ribs on the holders bear against the upper line-tube of the bicycle-frame; Fig. 3, a detail sectional view of the invention, and Fig. 4 a view on line *y y* of Fig. 3.

The numeral 1 designates the seat-post tube, 2 the upper line-tube of the bicycle, and 3 the seat-post, while 4 is the saddle, all of these parts being of usual construction.

The holder consists of two depending tubes 5 and 6, connected by the cross-piece or bridge 7, and all formed, by preference, integral. Through the bridge 7 is an aperture 8, which snugly, yet easily, receives the horizontal portion of the seat-post 3, while 9 is a set or clamping screw threaded through the bridge 7 to bear against the seat-post 3 and secure the holder wherever adjusted, forwardly or rearwardly. The tubes 5 and 6 depend a sufficient distance on opposite sides of the upper

line-tube 2 so that they will bear against said line-tube however far upward or downward the seat-post 3 may be adjusted, and on the inner faces of the tubes 5 and 6 are provided ribs 10 and 11, which bear firmly against the opposite sides of the upper line-tube 2, in consequence of which the holder is braced below the seat-post 3, and any lateral twisting or shifting of the holder is absolutely prevented.

Telescoping in the tubes 5 and 6 are tubes 12 and 13, which are connected by a cross-piece 14, and the springs 15 of the saddle are held to this cross-piece 14 by a clamp 16 and screw 17. The numerals 18 and 19 designate screws provided with the heads 20 and screw-threaded at their lower portions 21 and screwed into the lower ends of the tubes 5 and 6 at 22, while the upper portions of the screws pass loosely through the telescoping tubes 12 and 13 at 23.

Coil-springs 24 and 25 surround the respective screws in the tubes 5 and 6 and are interposed between the bottoms of tubes 5 and 6 and lower ends of tubes 12 and 13.

By turning the respective screws 18 and 19 the tension on either spring 24 or 25 may be adjusted to suit the requirements of the rider. The tubes 12 and 13 are adapted to slide up and down in the tubes 5 and 6 in opposition to the springs 24 and 25, which cushions the movement, while the shanks of the screws, together with the tubes 5 and 6, guide the tubes 12 and 13 in their up-and-down movement. It will also be seen that the heads 20 prevent any detachment of the tubes 12 and 13 from the tubes 5 and 6, and in consequence the bicycle can be lifted by the saddle, which is a very convenient manner of handling it at times, without detaching the upper portion of the device.

I am aware that changes of construction could be resorted to in carrying out the invention, and I do not, therefore, limit myself to the precise construction herein shown and described, but consider that I am entitled to all changes coming within the spirit and scope of the invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a bicycle seat-support, the combina-

tion with depending outer tubes having a cross-connecting member adapted to be secured to the seat-post, of inner tubes adapted to support the saddle, which telescope within the outer tubes aforesaid, springs located in the outer tubes and interposed between the lower ends thereof and the lower ends of the inner tubes, and headed members connected to the bottoms of the outer tubes and extending up centrally through the springs and passing loosely through the lower ends of the inner tubes with their heads lying within said inner tubes, whereby the inner tubes are guided in their movements and prevented from detachment from the outer tubes.

2. In a bicycle seat-support, the combination with outer depending tubes having a cross-connecting piece adapted to be secured

to the seat-post, of seat or saddle supporting tubes telescoping within the outer tubes, springs located within the outer tubes and interposed between the lower ends of the respective sets of tubes, and headed screws passing loosely through the lower ends of the inner tubes and down through the springs and adjustably screw-threaded into the bottoms of the outer tubes, whereby the inner tubes are guided and prevented from detachment from the outer tubes and provision made for adjusting the tension of the springs.

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

CHARLES H. EDDY.

Witnesses:

GEO. P. EDDY,

J. WARD SCHERMERHORN.