(No Model.)

A. ROBERTS.

SHOULDER BRACE FOR BICYCLES.

No. 588,881. Patented Aug. 24, 1897.

Fig. 1.

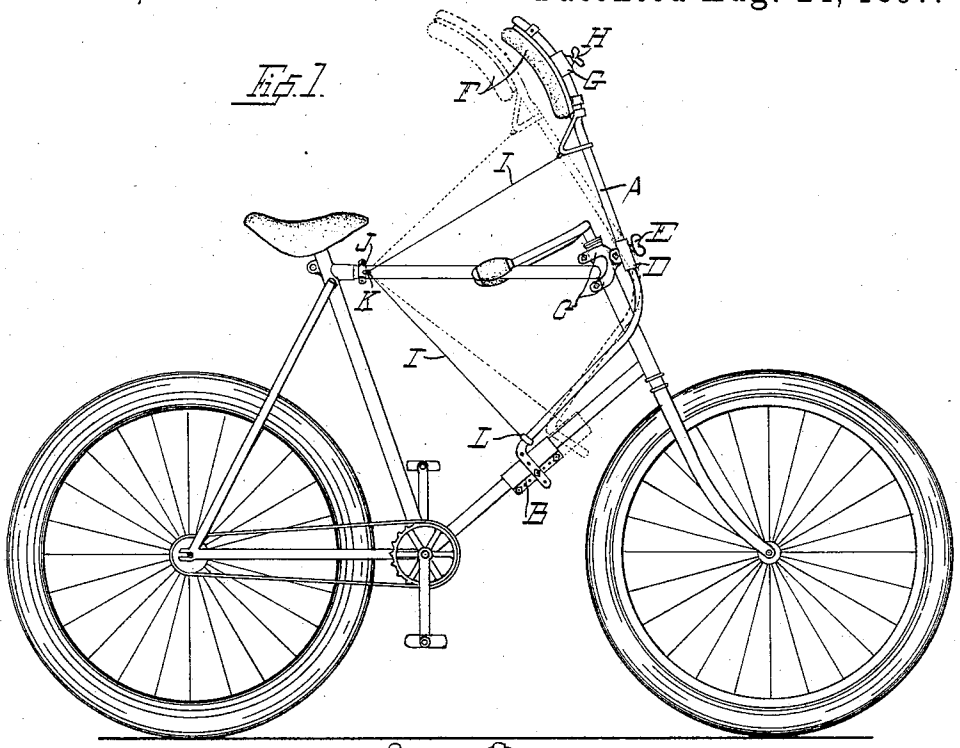


Fig. 2.

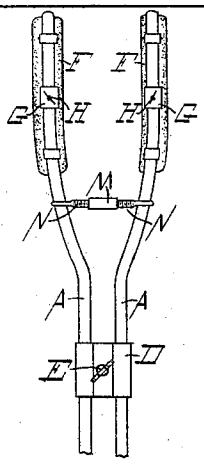
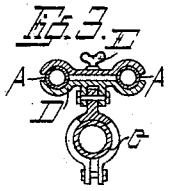


Fig. 3.



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

UNITED STATES PATENT OFFICE.

ARTHUR ROBERTS, OF MILWAUKEE, WISCONSIN.

SHOULDER-BRACE FOR BICYCLES.

SPECIFICATION forming part of Letters Patent No. 588,881, dated August 24, 1897.

Application filed April 18, 1896. Serial No. 588,136. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR ROBERTS, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented new and useful Improvements in Shoulder-Supporting Attachments for Bicycles, of which the following is a specification.

My invention relates to improvements in shoulder-supporting attachments for bicycles.

The object of my invention is to provide a shoulder-support against which the rider may brace himself for rapid riding.

In the following description reference is had to the accompanying drawings, in which—

Figure 1 is a side view of a bicycle with my invention attached thereto. Fig. 2 is a front view of my invention. Fig. 3 is a cross-section view of the clamp for securing the supporting-bars of the shoulder-pads to the bicycle-head.

Like parts are identified by the same reference-letters throughout the several views.

The elastic bent rods or bows A A are bolted or riveted at one end to the respective sides of the clamp-collar B, the latter engaging the lower bicycle-frame rod in front of the crank-shaft, as shown in Fig. 1.

C is a clamp attached to the bicycle-head at the point of the junction of the upper frame-rod, and pivotally secured thereto is a double clamp D, the respective halves of which are drawn together by a thumb-screw E. The bent rods A A, being secured as aforesaid to the clamp B, are engaged by the clamp D in front of the bicycle-head and provided at their free ends with shoulder-pads F, the latter being also adjustable upon the rods by means of a clamp G and set-screw H.

I are wires attached to the rods A A near the shoulder-pads and connected with the upper frame-rod of the bicycle underneath the saddle by means of a clamp J. The clamp is preferably formed with loops or eyes K, through which the stay-wires are passed and connected with the lower ends of the bars A A at L, thus permitting me to adjust the tension of the stay-wires on the rods or bows A A by adjusting the clamp on the frame-rod. It will be observed that by loosening the engagement of the clamps B and D upon the rods A A the latter may be adjusted, as indicated by the dotted lines in Fig. 1, and the shoulder-pads positioned to suit the rider. The proximity of the pads to each other is controlled by a turnbuckle M, operating upon right and left screw-threaded arms N N, projecting from the rods A A.

In use the pads are adjusted to the shoulders of the rider, who braces himself against them, thus adding to the force exerted on the pedals. When not in use, the entire device may be easily removed from the bicycle by releasing the clamp.

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

A shoulder-supporting attachment for bicycles, consisting in the combination of the elastic bent rods or bows removably and adjustably attached to the bicycle, the shoulder-pads located on the upper ends of the rods, and the stays connecting the upper and lower ends of said rods, with an adjustable clamp adapted to connect the stay-wires with the bicycle-frame at an intermediate point, substantially as described.

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

ARTHUR ROBERTS.

Witnesses:
LEVERETT C. WHEELER,
LYMAN G. WHEELER.