No. 629,293. Patented July 18, 1899.

C. W. HATHAWAY.

VELOCIPEDE.

(Application filed Nov. 21, 1898.)

(No Model.)

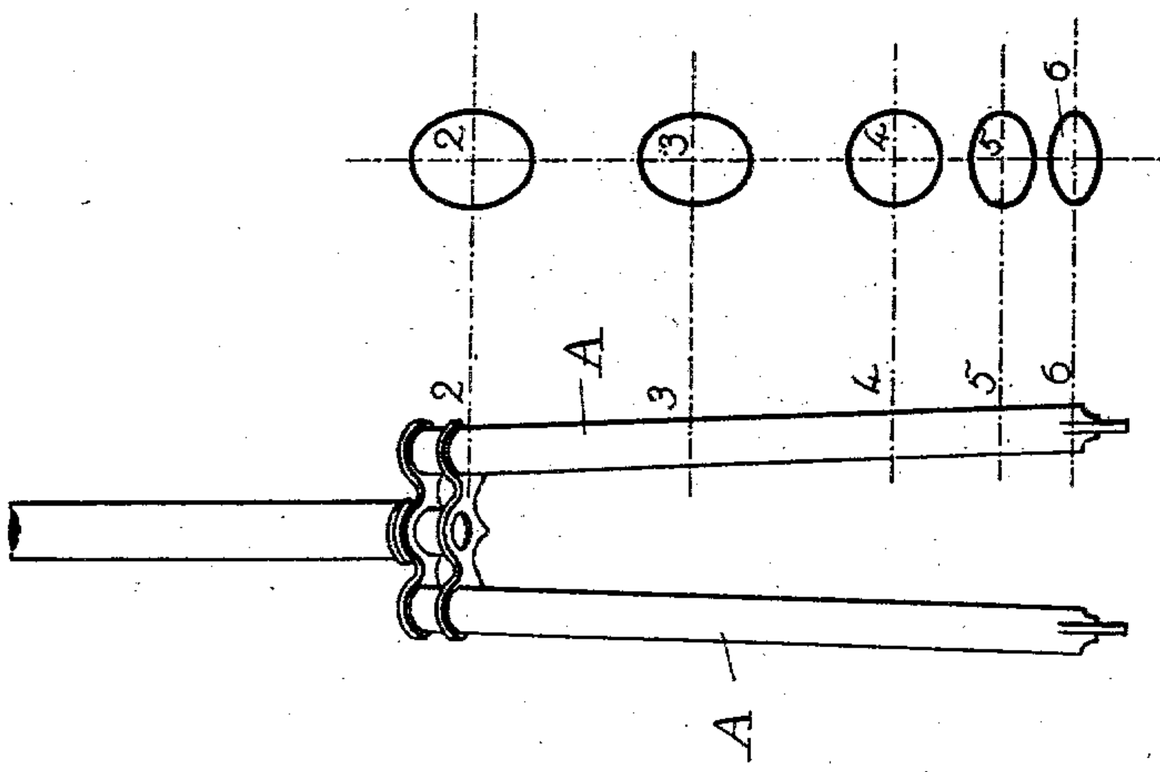

FIG. II.

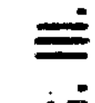

FIG. III.

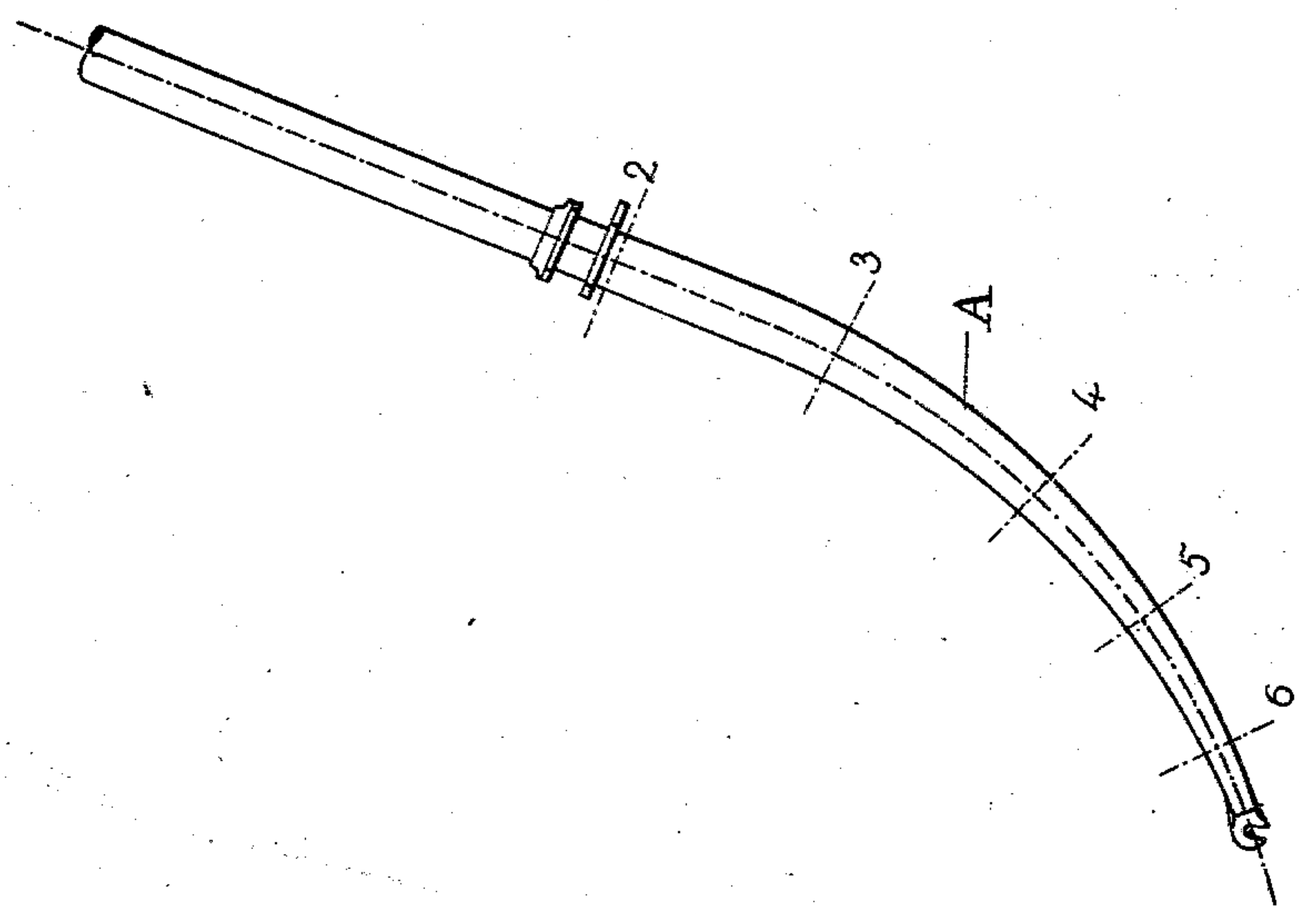

FIG. I.

Witnesses,
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per,
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UNITED STATES PATENT OFFICE.

CHARLES WALTER HATHAWAY, OF COVENTRY, ENGLAND, ASSIGNOR TO THE TRIUMPH CYCLE COMPANY, LIMITED, OF SAME PLACE.

VELOCIPEDE.

SPECIFICATION forming part of Letters Patent No. 629,293, dated July 18, 1899.

Application filed November 21, 1898. Serial No. 697,003. (No model.)

To all whom it may concern:

Be it known that I, CHARLES WALTER HATHAWAY, a subject of the Queen of Great Britain, residing at Coventry, in the county of Warwick, England, have invented a certain new and useful Improvement in Velocipedes and the Like, of which the following is a specification.

My invention relates to velocipedes and the like having fork-carried wheels, and has for its principal object to reduce vibration arising from inequalities in or obstacles on the road or other surface on which the said velocipede may be traveling; and my invention consists, essentially, in making the blades or prongs of the fork of a special form, hereinafter described and illustrated, and particularly pointed out in the claim.

In the accompanying drawings, Figure I is a side elevation, and Fig. II is a front elevation, of such a fork. Fig. III shows transverse sections of the blade of the fork at the respective points in Fig. II, respectively, connected therewith by the horizontal lines. Fig. III is drawn to a larger scale than Figs. I and II.

Similar letters and numerals refer to similar parts throughout the drawings.

The upper end 2 of each blade A is made of oval section, and the major axis is arranged parallel to the plane of the wheel to be carried, as usual, so as to meet the great fore-and-aft strain falling on the upper end of the fork. The lower end 6 of the blade is also made of oval section; but here the major axis instead of being arranged parallel to the plane of the wheel, as at present usual, is arranged at right angles thereto. The sectional form gradually changes from the one oval to the other between the two ends of the blade, as shown by the sections 3, 4, and 5 in Fig. III, passing through a circular sectional form at or near the point 4. The blades may be straight, but are preferably curved, more or less, as shown. The sectional circumference is preferably gradually reduced from the upper end to the lower and in such a way that in front or rear elevation the same width of blade is maintained from top to bottom, the major axis of the lower end 6 of the blade equaling the minor axis of the upper end 2 thereof. The said width is preferably somewhat greater than now usual, so as to increase the lateral rigidity of the fork. In other respects the fork may be constructed in any suitable manner.

From the above description the application of my invention to other suitable velocipedes and the like having fork-carried wheels will be readily understood. A fork constructed in the manner above described allows the wheel carried by it to yield in its own plane when encountering inequalities and obstacles much more readily than a fork of the usual form wherein the oval or D shape section of the blades having the major axis parallel to the wheel is maintained throughout.

What I claim, and desire to secure by Letters Patent of the United States, is—

A velocipede or like fork the upper ends of the blades of which are of oval section having the major axes parallel to the plane of the wheel to be carried, the lower ends of oval section having the major axes at right angles to the plane of the said wheel, and the intermediate parts gradually changing from the one form to the other, substantially as and for the purpose set forth.

CHARLES WALTER HATHAWAY.

Witnesses:
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