

R. E. POINDEXTER.
BICYCLE BRAKE.

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BICYCLE-BRAKE.

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To all whom it may concern:

Be it known that I, ROBERT E. POINDEXTER, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Bicycle-Brakes; 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.

My said invention consists in certain improvements in the details of construction and arrangement of parts of bicycle-brakes and means for mounting and operating the same, as will be hereinafter more fully described and claimed.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a side elevation of a bicycle provided with a brake mechanism of my improved construction; Fig. 2, a perspective view of the brake and frame separately; and Fig. 3, a rear elevation of the bicycle-frame with the brake attached, as seen when looking in the direction indicated by the arrows from the dotted line 3 3 in Fig. 1.

In said drawings the portions marked A represent the top brace, and A' the rear braces, of the bicycle-frame, which are of any usual or preferred form and need no special description.

The brake-frame B is of suitable form to support the brake-rolls and is hinged to a clamp B', which is clamped securely to said rear braces A' at a point just above the rear wheel. On its outer end is formed a housing B³ of a suitable form to inclose the brake-rolls b⁴. It is of tapered form, as shown, to accommodate rolls of substantially conical form, which are mounted on a horizontal journal in said housing with their large ends outward, being thus adapted to be forced against the sides or ends of said housing when the brake is applied, which creates friction between said rolls and said housing and brakes the wheel gradually, relieving it of much of the strain and wear common to the use of brakes of other constructions. A standard b extends up from the top of said frame B to a point just beneath the top brace

and saddle, and a spring b' connects the top thereof to a point on the clamp B' (preferably a short rearwardly-extending arm b³) and normally holds the brake carried by said frame up out of contact with the wheel. On the top brace A, at a point within convenient reach of the rider, preferably just beneath the handle-bars, a hand-lever B² is mounted, the lower arm of which is connected by means of a connecting-rod b² to the top of said standard b. By this means said brake can be quickly thrown down upon the wheel by simply pulling back on said hand-lever, which will pull said standard forward and the brake-frame down, carrying the brake-rolls into contact with the tire with the force required for the purpose. As soon as the force is removed from the hand-lever the spring b' will immediately lift said brake-frame and relieve the tire from the operation of the brake-rolls.

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

In a bicycle-brake, the combination, of the housing, the brake-rolls mounted on an axis therein, an arm on one side of said housing, a support or brace B' clamped to the rear fork of the frame above the wheel, said arm or brake-frame B being hinged thereto on the front side thereof, a rearwardly-extending arm b³ attached opposite said joint between the parts B and B', the upright or standard b rigidly attached to the frame B in front of said joint and extending up to a point just below the top of said rear fork, the spring b' attached at one end to near the top of said standard b and at the other end to the arm b³ and arranged to normally draw said standard backward and hold the brake-rolls up from the tire, the hand-lever B² pivoted to the top brace A adjacent to the handle-bars, and the connecting-rod b² which connects said lever and the top of said standard b, all arranged and operating substantially as described and for the purposes set forth.

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

ROBERT E. POINDEXTER.

Witnesses:

DON. K. HALL,
ROBT. W. NEIGHBOR.