

(No Model.)

C. W. HUDSON.
CYCLE BRAKE.

No. 577,858.

Patented Mar. 2, 1897.

Fig 1

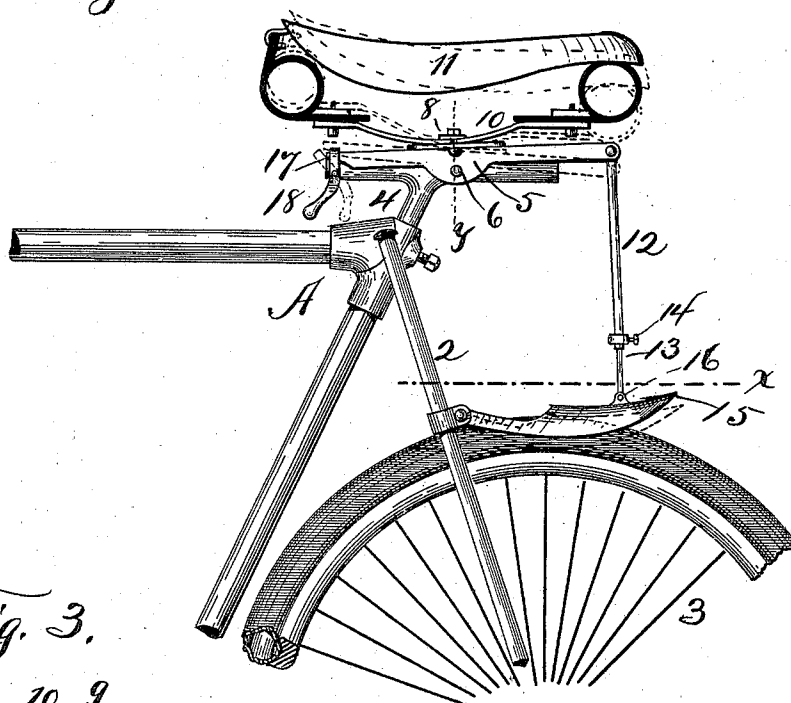


Fig. 3.

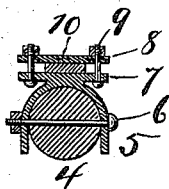


Fig. 2.

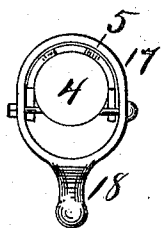
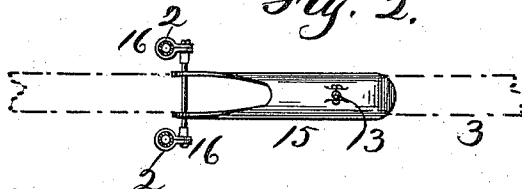


Fig. 4.

WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES W. HUDSON, OF WEEDSPORT, NEW YORK.

CYCLE-BRAKE.

SPECIFICATION forming part of Letters Patent No. 577,858, dated March 2, 1897.

Application filed August 14, 1896. Serial No. 602,779. (No model.)

To all whom it may concern:

Be it known that I, CHARLES W. HUDSON, of Weedsport, in the county of Cayuga, in the State of New York, have invented new and useful Improvements in Cycle-Brakes, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

My invention relates to brakes for cycles.

10 My object is to produce a brake which can be connected to a tilting saddle or one which is mounted upon a rocking support having a rocking bearing upon the saddle-post, the rear of the saddle or its rocking support being
15 suitably and adjustably connected to a brake-shoe of any desired pattern or style, which is mounted upon or connected to the bars of the fork of the rear wheel in such manner that one end is free to be oscillated vertically
20 to bring said shoe into engagement with the wheel by the rocking of the saddle (or its support) or out of such engagement, the saddle being rocked to apply the brake by the backward swinging of the body of the rider and
25 to release it by the forward swing or bend thereof. Means are also provided whereby the rocking support can be locked, so as to prevent the use of the brake, or unlocked whenever it is desired to use it or to have it
30 in readiness for use.

It is constructed as follows, reference being had to the accompanying drawings, in which—

35 Figure 1 is a side elevation of part of a cycle and my braking device applied thereto. Fig. 2 is a cross-section on line *x*. Fig. 3 is a cross-section on line *y*. Fig. 4 is a front elevation of the front end of the saddle-post cross-bar, the rocker, and a form of lock to
40 prevent the operation of the brake.

A is a part of a cycle-frame, of which 2 is the rear fork, in which the rear wheel 3 is journaled in any ordinary manner.

45 A saddle-post 4 is suitably mounted in the frame, and to it a rocker 5 is suitably connected, as by a bolt 6, its position being regulated by having a number of bolt-holes, if desired, through the cross-bar of the saddle-

post. This rocker usually fits over said post, more or less, and on its upper face is provided 50 with one member 7 of a clip, of which 8 is the other member, and 9 are the bolts by which the saddle-spring 10 is gripped to hold the saddle 11 in place.

The saddle may be of any kind, shape, or 55 style, and in case the spring 10 is of different form the clip should be changed to fit the spring.

A brake-rod 12, more or less tubular, is connected to the rear end of the rocker, and 13 60 is a sectional extension thereof, fitting into the rod 12 and adjusted by means of a set-screw 14 and having its lower end suitably connected to the brake-shoe 15, which is mounted and adapted to swing upon suitable 65 connections 16 to the fork-bars 2.

The brake-shoe can be of any form suitable to be suitably operated by the above mechanism.

A lock comprising a loop 17 and a handle 70 18 is pivoted upon the saddle-post, so that said loop will fit over the front end of the rocker and lock it to prevent the operation of the brake, and by pushing said handle back and throwing the loop forward the rocker is 75 released, so that a rider by changing his position upon the saddle a little will depress the rear thereof and apply the brake, the degree of pressure being controlled entirely by the position of the rider. Then by shifting or 80 throwing his weight forward the brake-shoe is raised, and if he chooses the rider can re-lock the rocker. Thus in coasting a rider, by straightening up his body more or less, can apply the brake gradually and with any de- 85 gree of force he may deem necessary for safety.

It will be evident that this invention can be readily applied to any style or shape of saddle-post by simply making some minor changes of form which would readily suggest 90 themselves to a mechanic, and that the cross-bar (or T-bar) upon any saddle-post can be readily pivoted upon said post by simply inserting a bolt through said post and cross-bar.

What I claim, and desire to secure by Letters Patent, is— 95

The combination with a cycle-frame, a wheel mounted therein, and a saddle-post mounted in said frame, of a rocker mounted upon the saddle-post, a saddle mounted upon said rocker, a brake-shoe hung upon said frame, and a rod connecting said shoe to said rocker, whereby the swinging of said rocker applies the brake to or removes it from the

wheel, and means to lock or release said rocker. 10

In witness whereof I have hereunto set my hand this 10th day of August, 1896.

CHARLES W. HUDSON. [L. S.]

In presence of—

W. H. KERARAL,
ISAAC CHADDERDON.