

(No Model.)

E. S. HALL.

ADJUSTABLE HANDLE BAR FOR BICYCLES.

No. 597,801.

Patented Jan. 25, 1898.

FIG. 1

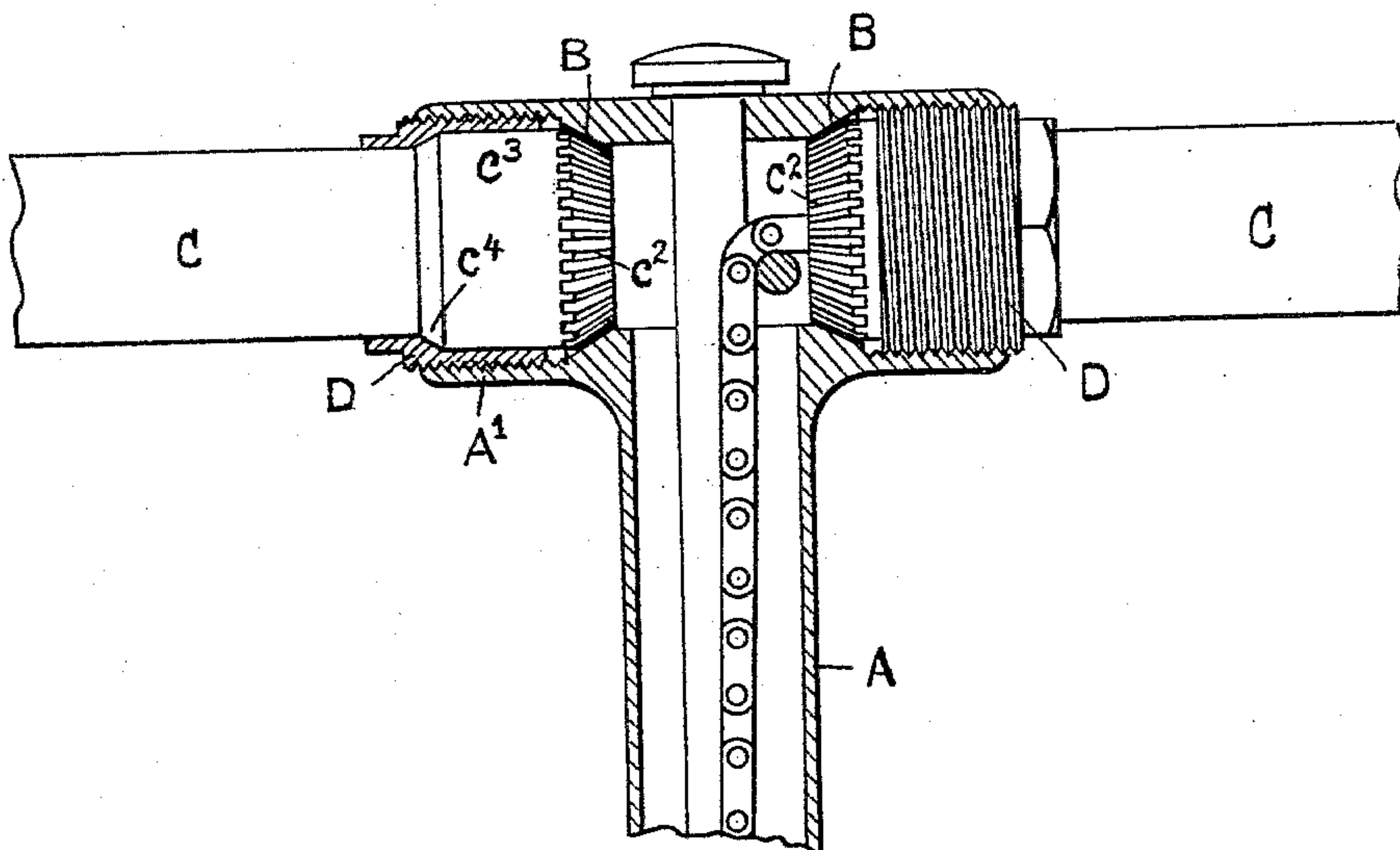


FIG. 2.

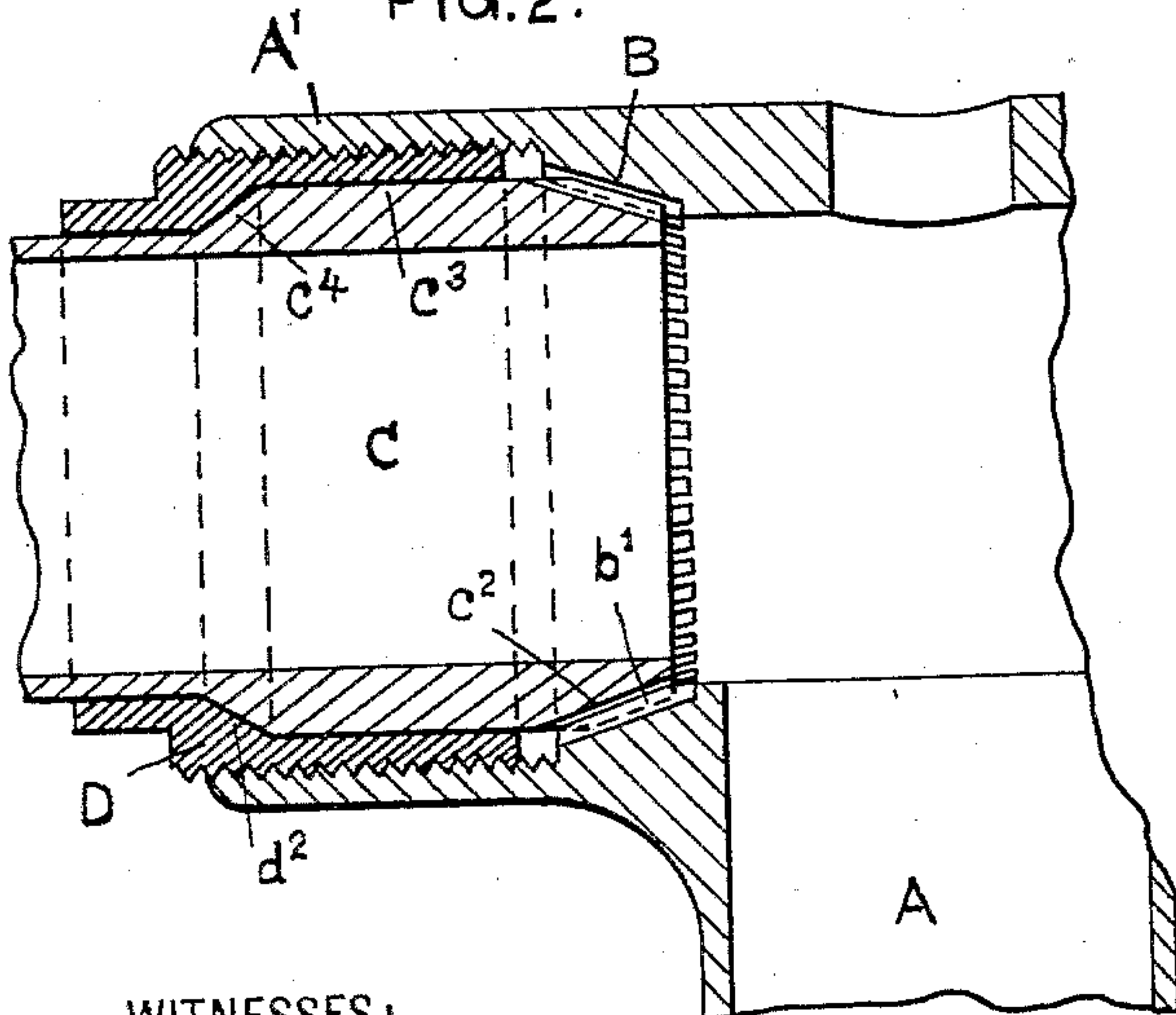
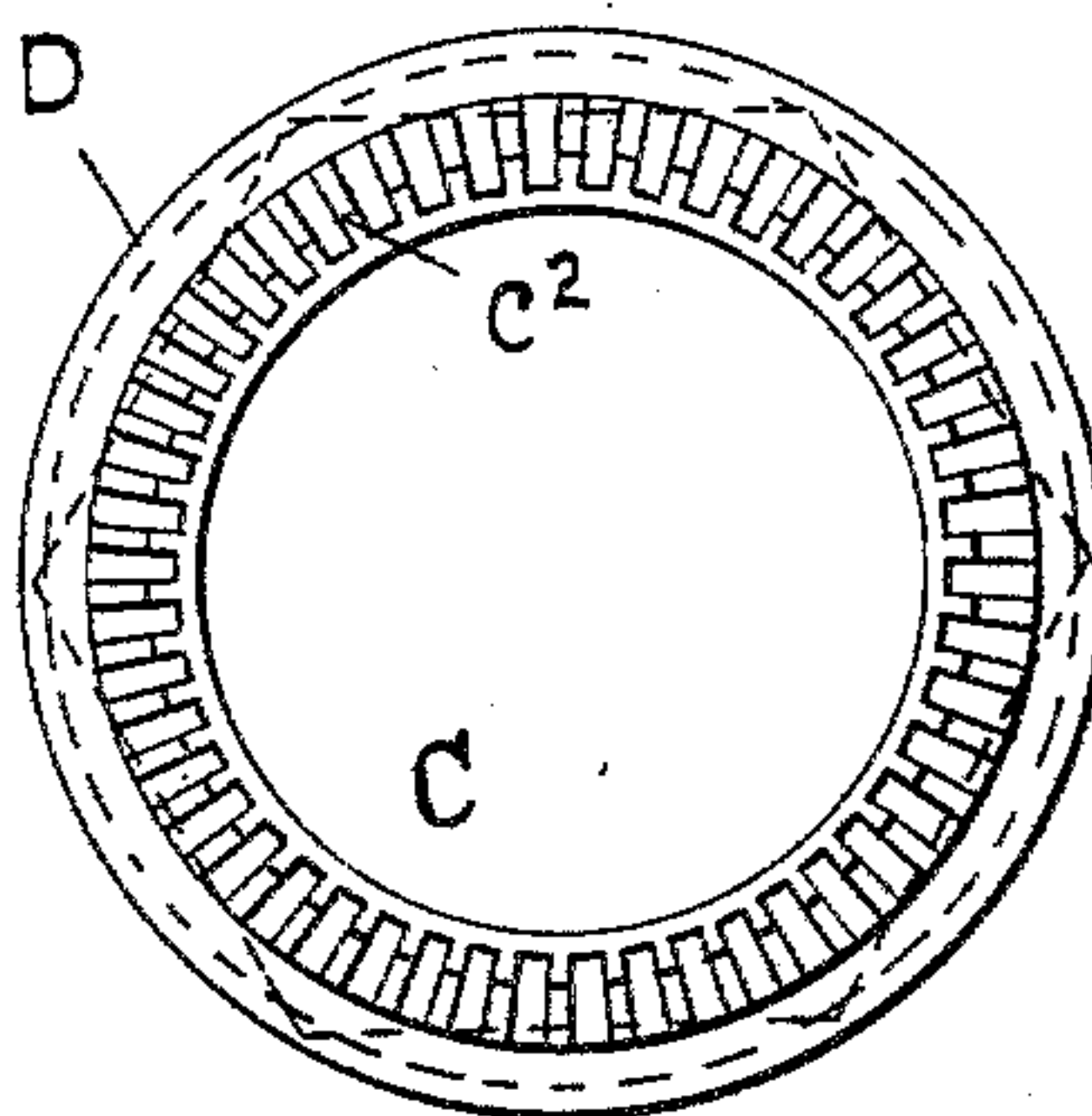


FIG. 3.



WITNESSES:

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EDWARD SPENCER HALL, OF NEW YORK, N. Y.

ADJUSTABLE HANDLE-BAR FOR BICYCLES.

SPECIFICATION forming part of Letters Patent No. 597,801, dated January 25, 1898.

Application filed August 28, 1896. Serial No. 604,166. (No model.)

To all whom it may concern:

Be it known that I, EDWARD SPENCER HALL, of the city, county, and State of New York, have invented certain new and useful Improvements in Adjustable Handle-Bars for Bicycles, of which the following is a full description.

The accompanying drawings illustrate the invention, of which—

10 Figure 1 is an upright view of the head-post of an ordinary bicycle in section, showing the devices for attaching and adjusting the handle-bar; Fig. 2, an enlarged sectional view of the adjusting and attaching parts; Fig. 3, an end view of the same.

15 A is the hollow head-post of the ordinary bicycle-handle, with hollow T-shaped tube at the top.

20 B is an interior bevel within the T-tube, and is provided with teeth b' to coöperate with a similar bevel bearing similar teeth on the inner end of the handle-bar.

25 C is a handle-tube provided on its inner end with the toothed bevel C^2 . The end of this handle-bar is made thicker than the tube, as shown at C^3 , in order that the toothed bevel may be formed at the end, and at the rear end of the thickened part another bevel C^4 is formed to coöperate with the securing-collar. Upon the handle-tube is placed the collar D. This collar is constructed as follows: On its interior base it is provided with a bevel d^2 , which contacts with the bevel C^4 on the handle-tube, and is also provided on its exterior with a screw-thread to engage with a similar thread on the interior of the T-tube A'.

30 Now the operation of the device is as follows: The handle-tubes are inserted in the T-tube and adjusted in place. The collar is then screwed up, which forces the handle-tube forward until the toothed bevel C^2 on the end of the handle-tube engages with the toothed bevel B in the T-tube, which holds the handle-bar securely in place. When the bar is required to be changed in position, the collar is loosened until the toothed bevels are disengaged, the handles turned and adjusted to

suit the requirements, and the collar is then screwed up to hold the parts in place.

It will be observed that this construction 50 leaves a free open space in all the tubes to accommodate the brake-cords and the adjusting-rod, so that we may have an adjustable handle-bar and at the same time make provision for the parts which adjust the slack in 55 the cord and operate the brake.

What I claim is—

1. In a vehicle, a hollow upright handle-post provided with a hollow T-head having open connection with each other, the T-head 60 provided with a series of teeth to receive the end of a handle-bar similarly provided, in combination with a hollow adjustable handle-bar provided on its ends with a series of teeth meshing with the teeth on the T-head, where- 65 by communication from the handle through the handle-bar, T-head, and post is left open for the passage of a brake-cord, and devices for securing the handle-bar in adjusted position, substantially as described. 70

2. In a vehicle, a hollow upright handle-post provided with a hollow T-head, having open connection with each other, the T-head provided with a series of teeth to receive the end of a handle-bar similarly provided, in 75 combination with a hollow adjustable handle-bar provided on its end with a series of teeth meshing with the teeth on the T-head, whereby communication from the handle, through the handle-bar, T-head, and post is left open, a 80 brake-cord passing from the handle through the opening, to the brake, devices for securing the handle in adjustable position to the T-head, an opening in the top of the T-head, and an adjusting device for the brake-cord 85 passing through the opening and into the handle-post.

Signed at New York, in the county of New York and State of New York, this 22d of August, A. D. 1896.

EDWARD SPENCER HALL.

Witnesses:

E. F. PERRY,
M. G. MILLER.