

ELECTRICALLY CONTROLLED LOCK FOR A BICYCLE

ABSTRACT

5 An electronically controlled lock for a bicycle is provided, comprising a drive
motor, a lock body and a lock pin spring, wherein one end of the top of the lock body
is provided with a lead-out sleeve, the end of the top of the lock body remote from the
lead-out sleeve is provided with a lock pin, one side of the interior of the lock body is
provided with a torsion spring, a drive motor is mounted on a side of the interior of
10 the lock body near the torsion spring, a lock pin positioning block is provided on the
lock pin near the interior of the lock body, the lock pin spring is mounted on the lock
pin near a lower side of the lock pin positioning block, a gasket is provided at a
connection between the lock pin positioning block and the lock pin spring, a control
slider is provided in the interior of the lock body near a lower side of the drive motor, a
15 cam is mounted on a lower end of the drive motor, left and right ends of the cam are
each provided with a stroke switch, a front surface of the lock body is provided with a
lock cover, screws are provided at connections between the lock cover and the lock
body, and the drive motor is electrically connected to an external power.

20 (Fig. 1)