

Claims

1. An electronic padlock, which comprises a body (2) and a shackle (3), which body has latch parts (4), a cam piece (5) and an electronic actuator (6), which electronic actuator comprises a pivot shaft (7), which pivot shaft is arranged to turn the cam piece
- 5 (5) to release the latch parts (4) from a locking state and to turn the cam piece (5) to hold the latch parts (4) in the locking state, in which locking state the latch parts (4) prevent the shackle (3) from being moved to open the electronic padlock, **characterized** in that between the electronic actuator (6) and cam piece (5) there is a blocking mechanism (8) in the direction of the pivot shaft (7) of the electronic actuator,
- 10 which blocking mechanism (8) connects the pivot shaft (7) of the electronic actuator functionally to the cam piece (5) to turn it with the electronic actuator (6) and prevent any other turning of the cam piece (5) in relation to the body (2),
- which blocking mechanism (8) comprises a locking plate (9), a latch piece (10) and a driver (11), which locking plate (9) is connected to the pivot shaft (7) of the electronic
- 15 actuator, which locking plate has a peripheral edge (13), which has a release recess (12) and which locking plate (9) is arranged to be turned in relation to the driver (11),
- which driver has a torsion projection (14), which is connected to the cam piece (5), and which driver (11) has a hole (15), in which a latch piece (10) is placed, and the body (2) has a recess (16) for the latch piece (10),
- 20 which blocking mechanism (8) is arranged to prevent turning of the cam piece (5), when the latch piece (10) is partly in the recess (16) and partly in the driver hole (15), and the peripheral edge (13) of the locking plate (9) prevents the latch piece (10) from moving toward the pivot shaft (7), and which blocking mechanism (8) is arranged to allow turning of said cam piece (5), when the electronic actuator (6) has by turning the
- 25 pivot shaft (7) turned the release recess (12) of the locking plate (9) to the driver hole (15), allowing the latch piece (10) to move toward the pivot shaft (7), whereby still continuing the turning of the pivot shaft (7) with the electronic actuator (6), in addition to the locking plate (9), the driver (11) and the thereto connected cam piece (5) also turn,
- 30 the blocking mechanism (8) further comprising a spring (17), which is supported on the driver (11) and which spring has a spring head (18), and which locking plate (9)

comprises a hole (19) for the spring head (18), which spring head (18) is in the hole, when the latch piece (10) is partly in the recess (16) and partly in the driver hole (15), and the peripheral edge (13) of the locking plate prevents the latch piece (10) from moving toward the pivot shaft (7).

5 2. Electronic padlock according to claim 1, **characterized** in that the latch piece (10) is a ball or a roller, the length and width of which roller are the same or almost the same.

3. The electronic padlock according to claim 1 or 2, **characterized** in that the peripheral edge (13) of the locking plate has protrusions (20) away from the pivot shaft
10 (7).

4. The electronic padlock according to claim 2 or 3, **characterized** in that the driver (11) has support surfaces (21) for the spring (17).

5. The electronic padlock according to claim 4, **characterized** in that the driver has installation protrusions (22, 23) for the locking plate (9).

15 6. The electronic padlock according to any of the claims 1 - 5, **characterized** in that there is a hole (24) for the pivot shaft in the centre of the locking plate (9).

7. The electronic padlock according to any of the claims 1 - 6, **characterized** in that the electronic actuator (6) is an electric motor or a solenoid.