Claims

1. A locking device for closing doors on cabinets, boxes or compartments,

-with a stator (20) for attachment to the door, wherein the stator (20) forms a pot-shaped housing shell, namely a floor which can be placed on the door and a wall (21) surrounding the floor,

-having a rotor (10) which is rotatably mounted on the stator (20) and can be connected at the door-side end to a locking element (70) in order to move the latter from a locking position into an unlocking position by movement of the rotor,

-having a blocking member (50) which can be moved between a blocking position and a release position, wherein the movement of the rotor (10) is possible only in the release position of the locking member (50),

-a coupling arrangement (30, 40, 50) is provided which prevents an unauthorized rotation of the rotor (10),

-the coupling arrangement (30, 40, 50) comprising a manually or electronically movable actuator (30), a driver (40) cooperating with the actuator (30), and a locking member (50),

-in that the blocking member (50) has the shape of a cylinder and the cylinder axis runs parallel to the rotor axis (19), wherein in its blocking position the blocking member (50) is immersed in a trough (17) on the outside of the rotor (10) or in a trough (22) on the inner side of the wall (21) of the stator (20) and is held in this blocking position by spring force,

-wherein, in order to release the movement of the rotor (10), the actuator (30) can be coupled to the driver (40) and the blocking member (50) can be displaced from the troughs (17, 22) into a release position counter to the spring force.

2. The locking device according to Claim 1, characterized in that, in the release position, the blocking member (50) is displaced from the rotor-side trough (17) into a trough (22) on the stator side or from the trough (22) on the stator side into a trough (17) on the rotor side counter to the force of a radially acting spring (60, 61).

3. The locking device according to Claim 1 or 2, characterized in that the movement path of the driver (40) runs along the inner side of the wall (21) of the stator (20) and is bent in a manner adapted to its movement path in longitudinal extension.

4. The locking device according to Claim 3, characterized in that the driver (40) has a channel (44) running in the radial direction in the width of the locking member (50), wherein the side surfaces of the channel (44) are formed as stop surfaces (45, 46) which, when the driver (40) moves or during a movement of the rotor (10), cause a displacement of the locking member (50).

5. The locking device according to one of Claims 1 to 4, characterized in that the trough (22) on the stator side opposite the blocking position of the locking member (50) or on the rotor-side trough (17) on the trough outlet has stop slopes (271, 272; 171, 172) on both sides, wherein the distance of the stop slopes (271, 272; 171, 172) permits a movement play of the rotor (10).

6. The locking device according to one of Claims 1 to 5, characterized in that the driver (40) has a groove (47) for the engagement of the actuator (30).

7. The locking device according to one of Claims 1 to 6, characterized in that the actuator (30) is mounted so as to be movable outside the rotor (10) and can be coupled to the driver (40) in order to release the movement of the rotor (10), wherein the driver (40) is held in its position in the coupled position and the blocking member (50) can be displaced from the rotor-side trough (17) into the stator-side trough (22) by a rotational movement of the rotor (10).

8. The locking device according to Claim 7, characterized in that, in the decoupled position, the driver (40) can be moved until the blocking member (50) strikes against a stop surface (271, 272) of the stator-side trough (22).

9. The locking device according to Claim 7 or 8, characterized in that a spring (61) acting on the locking member (50) is mounted on the stator (20), wherein the stator (20) preferably has corresponding spring stops (26, 26').

10. The locking device according to one of Claims 1 to 6, characterized in that the actuator (30) is mounted movably on the rotor (10) and can be coupled to the driver (40) in order to release the movement of the rotor (10), wherein the driver (40) is movable with the rotor (10) in the coupled position and the blocking member (50) can be displaced from the stator-side trough (22) into the rotor-side trough (17) by a rotational movement of the rotor (10).

11. The locking device according to Claim 10, characterized in that, in the decoupled position, the rotor (10) can be moved until the blocking member (50) strikes against a stop surface (171, 172) of the rotor-side trough (17).

12. The locking device according to Claim 10 or 11, characterized in that the actuator (30) is mounted on the rotor (10) so as to be displaceable in the radial direction, wherein the actuator (30) is mounted movably in a guide recess (14) of the rotor (10), and preferably for better guidance of the actuator (30) from the upper side (11) of the bottom surface of the rotor (10) are provided guide webs (13).

13. The locking device according to one of Claims 10 to 12, characterized in that the rotor (10) has a bottom surface, on the underside (12) of which there is a radially oriented transverse beam (15) which projects into the interior of the pot-like stator (20) and on its end facing the wall (21) of the stator (20) has a trough (17, 17') for receiving the locking member (50, 50') when the rotor (10) is moved.

14. The locking device according to Claim 13, characterized in that one end of the transverse beam (15) of the rotor (10) extends as far as the movement path of the driver (40) and the rotor (10) has on its bottom surface an edge-side slot (18) which runs along the path of movement of the driver (40) and which passes through the driver (40) from below with its upper part (41).

15. The locking device according to Claim 14, characterized in that, for better guidance of the driver, the lower part ~~(43)~~ of the driver ~~(40)~~ is extended and extends along the movement path over a greater length than the length of the edge-side slot ~~(18)~~ of the rotor ~~(10)~~.

16. The locking device according to one of Claims 13 to 15, characterized in that a spring ~~(60)~~ acting on the locking member ~~(50)~~ is mounted in a spring receptacle ~~(16)~~ on the transverse beam ~~(15)~~.

17. The locking device according to one of Claims 1 to 16, characterized in that there are two blocking members ~~(50, 50')~~ which are located in diametrically opposite troughs ~~(17, 17'; 22, 22')~~ in the blocking position.

18. The locking device according to one of Claims 1 to 17, characterized in that more than two troughs ~~(17, 17'; 22, 22')~~ on the rotor ~~(10)~~ or on the stator ~~(20)~~.

19. The locking device according to one of Claims 1 to 18, characterized in that stops ~~(23)~~ for limiting the rotation on the stator ~~(20)~~ are arranged.

20. The locking device according to one of claims 1 to 19, characterised in that the outer surface of the rotor ~~(10)~~ is flush with the outer surface of the stator ~~(20)~~.

21. The locking device according to one of Claims 1 to 20, characterized in that the rotor ~~(10)~~ is connected directly to the locking element ~~(70)~~, for example to a bolt, or in that the rotor ~~(10)~~ is connected indirectly to the locking element ~~(70)~~, for example via a drive wheel.