CLAIMS

1. A door closer (1) for closing a door (200),
   - with a housing (2) and an output shaft (3) supported therein, designed for fastening a lever arrangement (103),
   - with a mechanical energy storage device (4) in the housing (2), which drives the output shaft (3) to rotate, wherein the energy storage device (4) is preferably a spring,
   - with a sensor unit (20) comprising a sensor (23) and an encoder (21),
   - wherein the encoder (21) is arranged or designed on the output shaft (3),
   - wherein the sensor (23) is designed and arranged for detecting the encoder (21), in particular without contact,

   wherein the sensor (23) is arranged on a sensor receiving device (24), wherein the sensor receiving device (24) comprises a bracket (24.1),

   wherein the bracket (24.1) rests against an axle bearing closure (14) of the housing (2) in the direction of an axis of rotation (3.3) of the output shaft (3).

2. The door closer (1) according to claim 1, wherein the sensor receiving device (24) positions the sensor (23) on the end face of the output shaft (3).

3. The door closer (1) according to one of the preceding claims, wherein the axis of rotation (3.3) of the output shaft (3) intersects the sensor (23) and/or the encoder (21); preferably wherein the sensor (23) is arranged symmetrically to the axis of rotation (3.3) and/or preferably wherein the encoder (21) is arranged symmetrically to the axis of rotation (3.3).

4. The door closer (1) according to one of claims 1 to 3, comprising a mounting plate (50) on which the housing (2) of the door closer (1) can be fastened, wherein the bracket (24.1) is fastened to the same mounting plate (50).

5. The door closer (1) according to one of claims 1 to 4, wherein the bracket (24.1) rests against and/or is fastened to the housing (2) of the door closer (1); in

particular wherein the bracket (24.1) surrounds the output shaft (3) with a, preferably ring-shaped, bracket projection (24.4) and rests against and/or is fastened to the housing (2) with this bracket projection (24.4).

6. The door closer (1) according to one of claims 1 to 5, wherein the bracket (24.1) rests against an inner surface (2.4) of an opening (2.3) of the housing (2).

7. The door closer (1) according to one of claims 1 to 6, comprising a panel (30) which covers the housing (2) of the door closer (1), wherein the bracket (24.1) rests against the panel (30); preferably wherein the bracket (24.1) is clamped between the panel (30) and the housing (2).

8. The door closer (1) according to one of claims 1 to 7, wherein the sensor receiving arrangement (24) comprises at least one fastening spring (24.5), in particular as an integral part of the bracket (24.1), in order to apply pretension to the clamped bracket (24.1).

9. The door closer (1) according to one of the claims 1 to 8, wherein the panel (30) comprises at least one bracket receptacle (30.2) for the bracket (24.1); preferably wherein the panel (30) comprises fastening tabs (30.1) and the fastening tabs (30.1) are recessed on the bracket receptacle (30.2) for inserting the bracket (24.1).

10. The door closer (1) according to one of the preceding claims, wherein the sensor unit (20) is designed to detect an actual angle of rotation (11) of the output shaft (3); preferably wherein the sensor (23) is designed and arranged for identifying in a contactless manner a position and/or, in particular, rotation and/or acceleration of the encoder (21).

11. The door closer (1) according to one of the preceding claims, wherein the encoder (21) comprises a permanent magnet and wherein the sensor (23) is a magnetic sensor, in particular a Hall sensor.

12. The door closer (1) according to one of the preceding claims, wherein the encoder (21) is fastened, preferably screwed, to the end face of the output shaft

(3).

13. The door closer (1) according to one of the preceding claims, wherein the output shaft (3) is exposed on two opposing sides of the housing (2), wherein a first side of the output shaft serves for fastening the lever arrangement (103), wherein the encoder (21) is fastened on the second side of the output shaft (3).

14. The door closer (1) according to one of the preceding claims, wherein the output shaft (3) comprises a fastening receptacle (3.2) on both sides, wherein both fastening receptacles (3.2) are suitable for fastening a fastening element for fastening the lever arrangement (103) to the output shaft (3), wherein an encoder fastening (22) is fastened in one of the fastening receptacles (3.2).

15. A monitoring system (100) with a door closer (1) according to one of the preceding claims and with an evaluation unit (101), wherein the evaluation unit (101) is designed to monitor a door closing time and/or to determine and/or to monitor how long the door (200) is open.