CLAIMS

1. **Actuator (1)** for actuating a control element, such as a valve, by a driven member (2) of the actuator (1), the actuator (1) comprising,
   - a drive motor,
   - a handwheel (3),
   - a motor clutch (5) for interrupting a first drivetrain from the drive motor to the driven member (2), and
   - a handwheel clutch (6) for interrupting a second drivetrain from the handwheel (3) to the driven member (2),

   characterized in that
   - the motor clutch (5) and the handwheel clutch (6) share a common coupling element (7), which can be switched from
     - engagement with a counter coupling element (9) of the motor clutch (5) to
     - engagement with a protrusion (12) of the handwheel clutch (6) that is axially movable along a coupling axis (11) of the handwheel clutch (6)

   using a lever-arm-mechanism that can be manually operated,
   - the handwheel clutch (6) is formed by the common coupling element (7) and by a corresponding counter coupling element (8) that is rotationally coupled to the handwheel (3),
   - the common coupling element (7) can be moved axially and relatively to the counter coupling element (8) along longitudinal serrations (10) of the driven member (2) in a first axial movement (19) using said lever-arm-mechanism, and
   - said protrusion (12) of the handwheel clutch (6) can perform a second axial movement (20) independent of the first axial movement (19).

2. Actuator (1) according to claim 1,

– wherein the protrusion (12) is axially movable relative to the handwheel (3) to come into engagement with the common coupling element (7),
– in particular wherein,
– the common coupling element (7) is axially movable relative to the handwheel (3) to come into engagement
– with the protrusion (12) of the handwheel clutch (6) and/or
– with the counter coupling element (9) of the motor clutch (5)
or
– the counter coupling element (9) of the motor clutch (5) is axially movable relative to the handwheel (3) to come into engagement with the common coupling element (7).

3. Actuator (1) according to one of the claims 1 or 2, wherein the common coupling element (7) can be driven indirectly by the handwheel (3) via the protrusion (12) of the handwheel clutch (6),
– in particular without direct engagement between the handwheel (3) and the common coupling element (7).

4. Actuator (1) according to any one of the claims 1 to 3, wherein the common coupling element (7) is arranged in between the counter coupling element (9) of the motor clutch and the protrusion (12)/the handwheel (3),
– in particular such that the protrusion (12) of the handwheel clutch (6) can only be engaged with the common coupling element (7) as soon as the common coupling element (7) is disengaged from the counter coupling element (9) of the motor clutch (5).

5. Actuator (1) according to any one of the claims 1 to 4, wherein an axial length (15) of a contact face (16) of the protrusion (12) is longer than a maximum depth of axial

engagement between the protrusion (12) and the common coupling element (7),
- most preferably the axial length (15) is longer than the sum of a maximum depth of axial engagement between the protrusion (12) and the common coupling element (7) and a minimum depth of axial engagement between the protrusion (12) and a counter coupling element (8) of the handwheel clutch (6).

6. Actuator (1) according to claim 1,
- wherein the common coupling element (7) and the counter coupling element (8) of the handwheel clutch (6) are movable relative to each other in the first axial movement (19) to engage or disengage by using the manually operatable lever-arm-mechanism and
- the protrusion (12) is moveable into an axial engagement position (21) by the second axial movement (20).

7. Actuator (1) according to claim 6, wherein
- the common coupling element (7) and/or
- the counter coupling element (8) of the handwheel clutch is/are movable into an axial engagement position (22) by the first axial movement (19).

8. Actuator (1) according to any of the claims 6 or 7,
- wherein a force and/or torque can be transmitted between the common coupling element (7) and the counter coupling element (8) of the handwheel clutch as soon as the protrusion (12) is in the axial engagement position (21),
- preferably wherein the force and/or torque can be transmitted via the protrusion (12).

9. Actuator (1) according to any of the claims 6 to 8,

- wherein the protrusion (12) is designed for direct engagement with the common coupling element (7), in particular wherein the protrusion (12) is
  - carried by the counter coupling element (8) of the handwheel clutch and/or is
  - movable relative to the counter coupling element (8), or
- wherein the protrusion (12) is designed for direct engagement with the counter coupling element (8) of the handwheel clutch, in particular wherein the protrusion (12) is
  - carried by the common coupling element (7) and/or is
  - movable relative to the common coupling element (7).

10. Actuator (1) according to any of claims 6 to 9,
- wherein the handwheel (3) is non-rotatably connected to the counter coupling element (8) of the handwheel clutch or the common coupling element (7),
- in particular wherein the protrusion (12)
  - is carried by the handwheel (3) and/or
  - is axially movable relative to the handwheel (3).

11. Actuator (1) according to claim 10,
- wherein the handwheel (3) is axially movable relative to the common coupling element (7) or the counter coupling element (8) of the handwheel clutch and can perform at least part of the second axial movement (20), in particular
  - wherein the protrusion (12) is non-movable relative to the handwheel (3) such that the protrusion (12) and the handwheel (3) perform the second axial movement (20) together
  or
  - wherein the protrusion (12) is axially movable relative to the handwheel (3).

12. Actuator (1) according to any of the claims 6 to 11, wherein the common coupling element (7) is designed
- to be engaged with the counter coupling element (9) of the motor clutch (5), in particular by featuring another protrusion (12') for engagement with the counter coupling element (9) of the motor clutch and/or
- to be engaged with the driven member (2) or to form the driven member (2).

13. Actuator (1) according to any of the claims 6 to 12,
- wherein the protrusion (12) is reversely movable along a coupling axis (11) of the handwheel clutch (6) against a restoring force provided by a restoring member (17'),
- preferably, wherein the restoring member (17') pushes the protrusion (12) into engagement with the common coupling element (7) or the counter coupling element (8) of the handwheel clutch (6).

14. Actuator (1) according to any of the claims 6 to 13,
- wherein the element (7, 8, 3) carrying the protrusion (12) features a recess (13) in which the protrusion (12) can move axially and relative to said element (7, 8, 3) along an axial range (14),
- in particular such that said element (7, 8, 3) can drive the protrusion (12) into rotation around a coupling axis (11) of the handwheel clutch (6), as long as the protrusion (12) is within said axial range (14).