ROTARY PUSHBUTTONS WITH SPRING-LOADED ROTARY AXIS

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ROTARY PUSHBUTTONS WITH SPRING-LOADED ROTARY AXIS

Technical task:
Rotational mounted pushbuttons have a rigid axis of rotation.

Initial situation:
The closer you push/actuate to the axis of rotation, the higher the actuating force.

Solution:
The new idea consists of a spring-loaded rotary axis.

A rotatory key guidance is known from the state of the art. Now the rotary axis is given a degree of freedom in the direction of actuation. The return is effected by a reset element (e.g. spring). If an operation is now carried out at position (1.), the control element behaves like a classic control unit with a rotary key guide. When actuating at position (2.), the key cap is now moved almost uniformly in the actuating direction (depending on the spring constants of the two reset elements).

![Diagram of rotary pushbutton with spring-loaded rotary axis]

Figure 1

Advantages:
- Combines the advantages of a rotary key guide and a translatory key guide.
- Precise key guidance with even force distribution during operation.