

ABSTRACT

LOCK FOR A FLAP OR DOOR

The aim of the invention is to design a door lock or flap lock which can be easily and reliably opened with little effort. Said aim is achieved by a door lock or flap lock comprising a locking mechanism that consists of a latch and at least one pawl for locking the latch. The lock further comprises a triggering lever which, upon being actuated, allows the locked locking mechanism to be unlocked. The lock also comprises a spring for moving the pawl in the direction of the locking position. The triggering lever is designed in such a way that the actuation thereof at least reduces, preferably altogether cancels the spring force acting on the pawl, i.e., when the triggering lever is actuated, the spring force that presses the pawl in the direction of the locking position decreases at least. Since such a force makes it difficult to unlock a locking mechanism, actuating the triggering lever at least reduces or altogether does away with said difficulty when the spring force is canceled entirely. As a result of the fact that the triggering lever has two functions, the number of parts can be kept to a minimum. Advantageously, the lock therefore is not complex to produce and is compact and lightweight.

Fig. 1

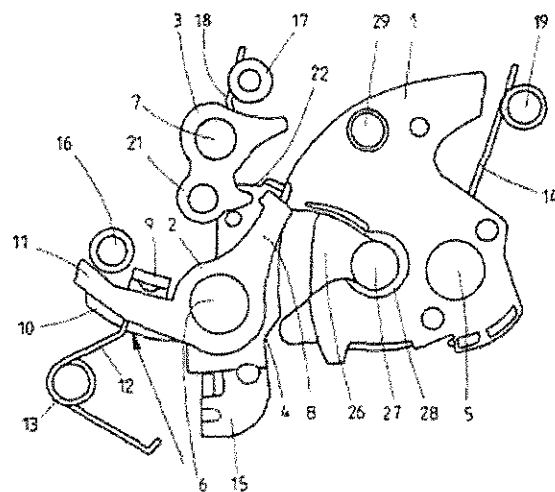


FIG.1

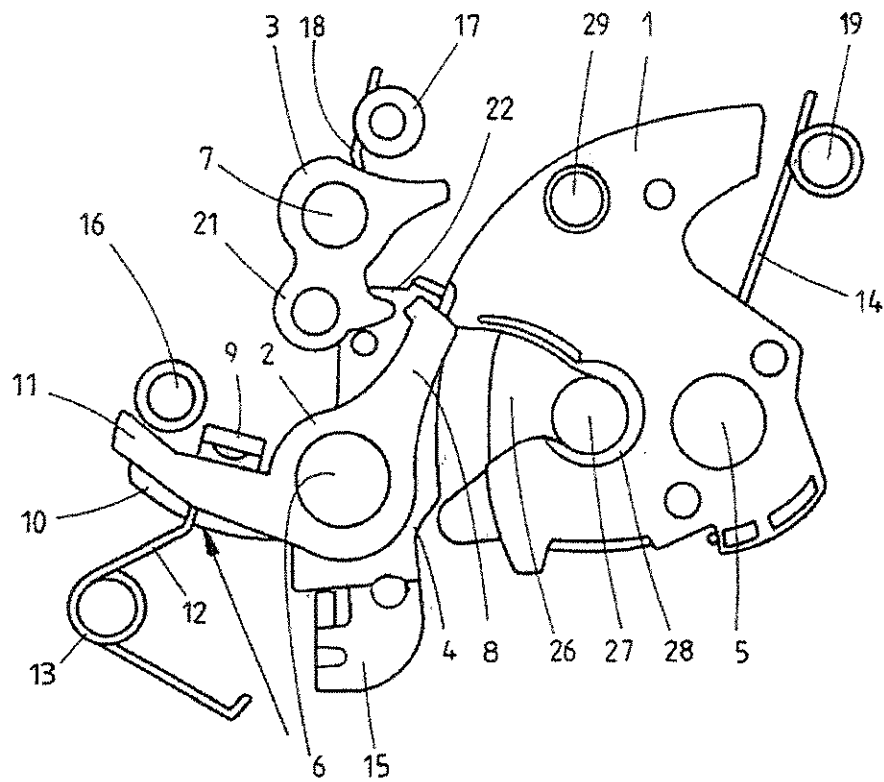


FIG.1

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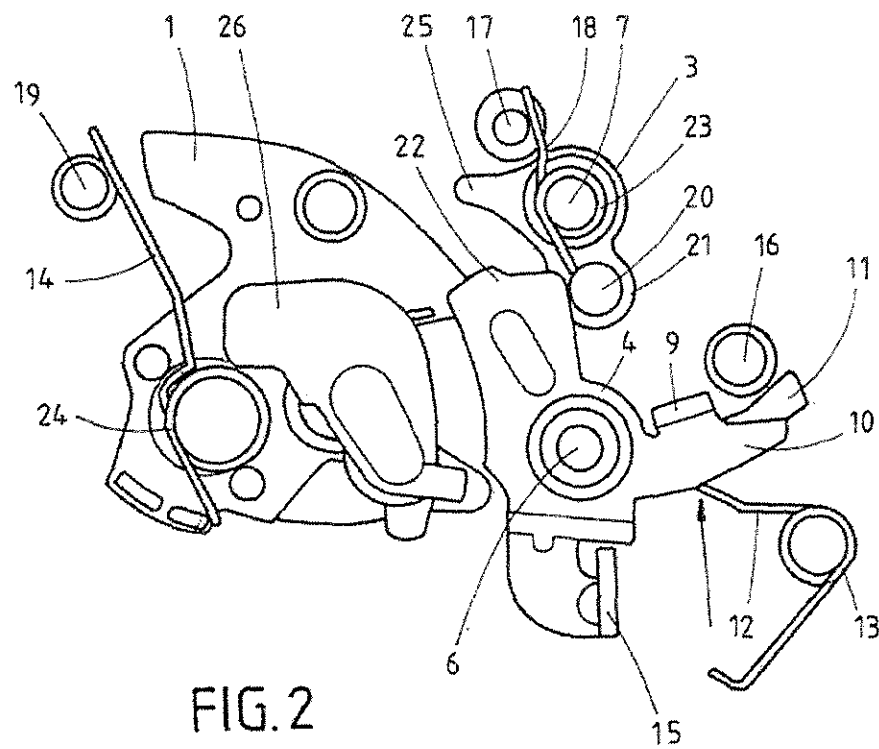


FIG. 2

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Reference list:

- 1: Rotary latch
- 2: Pawl
- 3: Blocking lever
- 4: Triggering lever
- 5: Pawl axis
- 6: Common axis of pawl and triggering lever
- 7: Blocking lever axis
- 8: Locking lever arm of pawl
- 9: Triggering lever tappet
- 10: Lever arm of triggering lever
- 11: Lever arm of pawl
- 12: Spring arm
- 13: Leg spring
- 14: Spring arm
- 15: Actuating lever arm of triggering lever
- 16: Stop for pawl and triggering lever
- 17: Stop for blocking lever
- 18: Spring arm
- 19: Stop
- 20: Bolt
- 21: Blocking lever arm
- 22: Unlocking lever arm of triggering lever
- 23: Leg spring for blocking lever
- 24: Leg spring for rotary latch
- 25: Lever arm for blocking lever
- 26: Infeed buffer for locking bolt
- 27: Locking bolt, lock holder
- 28: Plastic coating
- 29: Protruding bolt of rotary latch