

Title (en)
Rotary Locking Device

Title (de)
Drehverriegelungsvorrichtung

Title (fr)
Dispositif de verrouillage pivotant

Publication
EP 1357245 A2 20031029 (EN)

Application
EP 03252286 A 20030410

Priority
GB 0209476 A 20020425

Abstract (en)
A rotary locking device comprises a locking element (4) guided for rotary movement relatively to a mounting base (1) from a first position, in which a blade portion of the locking element (4) is located in an idle position, to a second position, in which the blade portion (4B) is extended relatively to the mounting base (1) for locking engagement within a latching recess (17) of a movable member to be locked relatively to the mounting base (1). A rotary driving element (8) is mounted for rotation coaxially with the locking element (4) and is arranged to make driving engagement with the locking element (4) via a coupling allowing lost motion between the driving element (8) and the locking element (4). The coupling biases the driving element (8) relatively to the locking element (4) in a direction of movement towards the first position. A latching element is secured on the mounting base (1) and is arranged for movement from an idle position to a latching position in which it engages with the locking element (4) to latch the same in the second position. During rotation of the driving element (8) to transfer the locking element (4) from said first to said second position, the locking element (4) is biased relatively to the driving element (8) by the lost motion coupling. Upon arrest of the locking element (4) in the second position the driving element (8) can undergo lost motion to cause movement of the latching element from the idle to the latching position.

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Cited by
DE102006044335A1; EP2378039A3; FR2907830A1; US8485569B2

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