

Title (en)  
Clutch type cylinder lock

Title (de)  
Zylinderschloss mit Kupplungseinrichtung

Title (fr)  
Serrure cylindrique avec dispositif d'accouplement

Publication  
**EP 1013854 A1 20000628 (EN)**

Application  
**EP 99123103 A 19991118**

Priority  
IT BO980677 A 19981202

Abstract (en)  
A cylinder lock of the so-called clutch type, comprising a case (2,3), two coaxial plugs (5) which can rotate inside the case and are provided with a key slot (6), pins (10) and complementary pins (11) which are arranged in the plugs (5) and the case (2,3) and can be actuated by the key from a locking position to a position for turning the plugs (5), a bit (14) which is rotatably supported between the plugs (5) and can be coupled to the plugs by means of a coupling element (22), further comprising two coaxial bushes (23) which are accommodated in mutually opposite seats (20) of the plugs (5) and are provided with external teeth (24) by means of which the bushes (23) are rotationally coupled to the plugs (5) but can slide axially in order to engage an opening of the bit (14) and provide a rotary coupling therewith, two mushroom-shaped elements (28) having stems (29) which are guided telescopically one inside the other in contrast with a return spring (33) arranged inside them and the plates (30) guided in the bushes, the bushes having, in the adjacent ends, walls (25) which have passage holes (31) for the stems and, at the opposite ends, internal collars (26) which act as abutment for the plates (30), springs (32) being arranged between the plates (30) and the walls (25) and being adapted to actuate the plates against the internal collars, the collars being provided with recesses (34) which allow the insertion of the mushroom-shaped elements (28) in the bushes (23) so that the stems pass through the holes and the plates abut against the collars. <IMAGE>

IPC 1-7  
**E05B 9/10**; **E05B 63/00**

IPC 8 full level  
**E05B 9/10** (2006.01); **E05B 63/00** (2006.01)

CPC (source: EP)  
**E05B 9/105** (2013.01); **E05B 63/0065** (2013.01)

Citation (search report)  
• [A] EP 0536653 A1 19930414 - ITALIANA SERRATURE AFFINI [IT]  
• [A] DE 3535426 A1 19870409 - BKS GMBH [DE]  
• [A] DE 9402519 U1 19940414 - BKS GMBH [DE]  
• [A] DE 4242522 A1 19940623 - WILKA SCHLIESTECHNIK GMBH [DE]

Cited by  
CN104989175A; EP3109379A1; EP1447499A3; EP1447499A2

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