

Title (en)  
Lock cylinder for driving a lock latch

Title (de)  
Schließzylinder zum Antrieb eines Riegels

Title (fr)  
Cylindre de serrure pour commander un loquet de verrouillage

Publication  
**EP 2665045 A1 20131120 (EN)**

Application  
**EP 13167719 A 20130514**

Priority  
IT MI20120843 A 20120516

Abstract (en)  
The lock cylinder (1) according to the invention comprises a cylinder housing (3) and a driving pin (5A, 5B) housed in the cylinder housing (3). A reading sensor (170A, 170B) detects, through exchange of electrical and/or magnetic and/or optical signals, the predetermined unlocking combination of the key (9). If the correct key is inserted in the cylinder (1), a logic unit (11) allows the driving pin (5A, 5B) to actuate the bolt (102) rotating on itself. The reading sensor (170A, 170B) and the logic unit (11) are arranged to read the predetermined unlocking combination reproduced on the key (9) while the latter is moving and is inserted in the lock cylinder 1, greatly reducing the electrical consumption of the cylinder and increasing its autonomy and safety.

IPC 8 full level  
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**E05B 47/0642** (2013.01); **E05B 49/006** (2013.01); **G07C 9/00174** (2013.01); **E05B 47/0012** (2013.01); **E05B 2047/0023** (2013.01); **E05B 2047/0065** (2013.01)

Citation (applicant)  
• EP 1707712 A1 20061004 - WFE TECHNOLOGY CORP [TW]  
• WO 0028179 A1 20000518 - SYNATEL INSTRUMENTATIONS LIMIT [GB], et al  
• DE 2807080 A1 19790823 - MERK GMBH TELEFONBAU FRIED

Citation (search report)  
• [IY] EP 1707712 A1 20061004 - WFE TECHNOLOGY CORP [TW]  
• [Y] WO 0028179 A1 20000518 - SYNATEL INSTRUMENTATIONS LIMIT [GB], et al  
• [Y] DE 2807080 A1 19790823 - MERK GMBH TELEFONBAU FRIED  
• [Y] DE 19609400 A1 19970904 - IKON PRAEZISIONSTECHNIK [DE]  
• [Y] EP 1323880 A2 20030702 - SCHLIESSANLAGEN GMBH PFAFFENHA [DE]  
• [IA] WO 2005033446 A2 20050414 - SIMONS HANS-JUERGEN [DE]  
• [YA] GB 2264976 A 19930915 - FORD MOTOR CO [GB]

Cited by  
IT201800010395A1; WO2020099215A1; CN109681040A; CN104806072A; CN110262387A; GB2545383A; GB2545383B; EP4158141A4; CN114412285A; US10519695B2; WO2016045643A1; US11655653B1; EP4261369A1; US11982104B2

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