

Title (en)  
Lock cylinder with a security device

Title (de)  
Schliesszylinder mit Sicherheitsvorrichtung

Title (fr)  
Serrure cylindrique avec dispositif de sécurité

Publication  
**EP 1707711 B1 20110914 (EN)**

Application  
**EP 06251384 A 20060315**

Priority  
ES 200500736 A 20050330

Abstract (en)  
[origin: EP1707711A2] A security device for lock cylinders, which consist of a plug-rotor (1) which is rotatable in a cavity of a lock cylinder housing (2), which locks use true keys (4) in which the combination for opening is by means of peaks and valleys of different sizes, with the valleys operating in conjunction with respective pairs of pins (5, 6), which each comprise a plug-rotor pin (5) and a lock cylinder housing pin (6) which is loaded by a spring (7), and the plug-rotor (1) incorporating a keyway (8) for insertion of the true key (4), in which there is provided a usual virtual line (9) corresponding to longitudinal alignment of the tips of the plug-rotor pins (5) when no key is inserted; characterised in that at least one of the plug-rotor pins (5) is formed as a security pin (10) which includes some end means which prevents the security pin (10) from reaching the usual virtual line (9) in the state in which the true key (4) is not inserted or the lock is empty, and its advance reaches only a virtual security line (9B) which is shorter than that of the usual virtual line (9).

IPC 8 full level  
**E05B 27/00** (2006.01)

CPC (source: EP ES)  
**E05B 27/0017** (2013.01 - EP ES); **E05B 27/0057** (2013.01 - EP)

Cited by  
EP2075394A1; DE102007000177A1; CN102322188A; EP2085542A1; EP2281985A3; EP2108767A3; CN102535972A; EP1997981A3; AU2008100399B4; EP3696353A1; EP1997981A2

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**EP 1707711 A2 20061004; EP 1707711 A3 20070801; EP 1707711 B1 20110914**; AT E524629 T1 20110915; ES 2273566 A1 20070501; ES 2273566 B1 20080301; PT 1707711 E 20111121

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