

Title (en)

Dead bolt combination lock and push-pull lock, each with integrated re-locking features, lock with auxiliary security features, and lock keypad with tamper detection and response features

Title (de)

Kombinationsschloss mit Riegel und Zug-Druck-Schloss, beide mit integrierten Doppel-Schliessmerkmalen, Schloss mit zusätzlichen Sicherheitsmerkmalen und Tastenfeld für Schloss mit Merkmalen zur Erkennung von und Reaktion auf unbefugte Manipulation

Title (fr)

Serrure à pêne dormant et serrure à poussée et traction combinées, présentant chacune des caractéristiques de double verrouillage intégrées et des fonctions de sécurité auxiliaires, et clavier de verrouillage avec un dispositif de détection et de réponse d'utilisation frauduleuse

Publication

EP 1486632 B1 20081001 (EN)

Application

EP 04077099 A 19981221

Priority

- EP 98963833 A 19981221
- US 7036698 P 19980102
- US 6660198 A 19980427

Abstract (en)

[origin: EP1486632A1] A dead bolt lock (214) automatically blocks the extended bolt (204) to prevent externally-applied force from thrusting the bolt (204) back into the lock case (100), and in the event of physical attack the lock responds by prolonging or perpetuating the deadbolt blocking condition. A push-pull lock has a bolt whose motion in both directions is stopped in response to detection of a rise in motor current above a certain level: a cushioning arrangement allows the current-limiting features (600) to be implemented without risk of damage to the motor (202), gear teeth or other drive components. A re-locker arrangement includes an angled flange that is part of a motor-supporting bracket (206); when forcibly pressed, the flange breaks plastic pins (920) to release a spring-biased re-locker wire (950) to block the bolt from being withdrawn. The system also provides a position sensor switch (692), a keypad tampering detection and response system (646), remote enable/disable unit (5), duress detection and response unit (7), low-battery sensing arrangement (600) and bolt extension indication, adjustable bolt throw and audit trail features. <IMAGE>

IPC 8 full level

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CPC (source: EP)

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