

Title (en)
CYLINDER LOCK AND KEY SYSTEM

Title (de)
SCHLIESSZYLINDER- UND SCHLÜSSELSYSTEM

Title (fr)
SYSTÈME DE SERRURE CYLINDRIQUE ET DE CLÉ

Publication
EP 3366870 A1 20180829 (EN)

Application
EP 17157816 A 20170224

Priority
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Abstract (en)
A cylinder lock and key system including cylinder locks and keys. The locks comprises a housing having a cylindrical bore; and a cylindrical plug (200, 600) which is rotatably journaled in the housing about a rotational axis and which exhibits a front end and a keyway (206, 606), which extends axially from an entrance opening at the front end. The keys (100, 300, 400, 500, 700) comprises a key bow (102, 302, 402, 502); and a key blade (104, 304, 404, 504) extending forwardly from the key bow to a key tip. the key blade is insertable in a forward longitudinal direction to a fully inserted position in the keyway of corresponding locks and rotatable about the rotational axis when inserted. The plugs and keys are provided with cooperating stop surfaces for defining the fully inserted position of the keys in the keyways. The cooperating stop surfaces comprise at least two first stop surfaces (120a, 120b, 320a, 320b, 420a, 420b, 420c, 520a, 520b) arranged at the key blade (104, 304, 404, 504) of each key, each first stop surface facing forward in the insertion direction and being positioned at a selected one of a predetermined number of selectable axial positions. At least two second stop (220a, 220b, 620a, 620c) surfaces are arranged in the keyway (206, 606) of each plug, each second stop surface being positioned at a selected one of the predetermined number of selectable axial positions. The first and second stop surfaces are arranged such that at least one first stop surface is in contact with a corresponding second stop surfaces when a correct key is fully inserted in the keyway of a corresponding lock. Each first stop surfaces (120a, 120b, 320a, 320b, 420a, 420b, 420c, 520a, 520b) is defined by a respective forwardly open, through penetrating recess (122a, 122b, 422a, 422b) arranged at the key tip (105, 305, 405, 505). Each second stop surface (220a, 220b, 620a, 620c) is defined by a respective stop member (222a, 222b, 622a, 622c) which is arranged in the keyway and extends laterally over the entire cross section of the keyway.

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Citation (applicant)
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• EP 1523603 B1 20060802 - KELLER ERNST [CH]

Citation (search report)
• [X] EP 1048804 A1 20001102 - BREMICKER SOEHNE KG A [DE]
• [A] EP 2360334 A2 20110824 - DORMA GMBH & CO KG [DE]
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