

Title (en)

Cylinder piston unit with locking means and method for locking and unlocking the same

Title (de)

Kolben-Zylindereinheit mit Verriegelung und Verfahren zur Verriegelung und Entriegelung einer Kolben-Zylindereinheit

Title (fr)

Vérin de verrouillage et procédé de verrouillage et de déverrouillage d'un vérin de verrouillage

Publication

EP 2239470 A3 20120613 (DE)

Application

EP 10156720 A 20100317

Priority

DE 102009017212 A 20090409

Abstract (en)

[origin: EP2239470A2] The locking cylinder (20) has a cylinder (21) and a piston (22). Two transportable lock-supporting-bodies (35,36) are provided in a mutually frictional locking contact. The lock-supporting-bodies are determined to lock a spindle (30) against a rotation around its rotational axis (33) in friction fit manner. Independent claims are also included for the following: (1) a method for a locking a rotably fixed and frictionally engaged locking cylinder; and (2) a method for unlocking a rotably fixed and frictionally engaged locking cylinder.

IPC 8 full level

F15B 15/26 (2006.01)

CPC (source: EP)

F15B 15/264 (2013.01)

Citation (search report)

- [XAI] DE 3629677 A1 19880310 - KONTEC GMBH [DE]
- [A] US 2632426 A 19530324 - GEESINK-DE GRAAF MARRETJE GIJS, et al
- [A] GB 644424 A 19501011 - C V FABRIEK VOOR AUTO EN MACHI
- [A] GB 2154282 A 19850904 - H C H MANUFACTURING LTD
- [A] CH 546895 A 19740315 - BIERI H AG
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Cited by

EP3101283A1; CN108679038A; CN114517809A; CN109470442A; CN110356545A; DE102015108829A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA ME RS

DOCDB simple family (publication)

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EP 10156720 A 20100317; DE 102010015996 A 20100317; EP 12197151 A 20100317; EP 12197159 A 20100317; ES 10156720 T 20100317; ES 12197151 T 20100317; ES 12197159 T 20100317; PL 10156720 T 20100317; PL 12197151 T 20100317; PL 12197159 T 20100317