Title (en)

Power cylinder

Title (de)

Arbeitszylinder

Title (fr)

Vérin de travail

Publication

EP 0841488 A3 20000112 (DE)

Application

EP 97890204 A 19971014

Priority

AT 195596 A 19961108

Abstract (en)

[origin: EP0841488A2] The cylinder comprises a cylinder tube (1), which is smooth before assembly, has holder collars (16) at the ends, and is pressed into recessed grooves (19) of cylinder cover (3) or base (2). In the end pressed sections (20), the cylinder tube has reinforcing collars (21) on the outside, which are also pressed. The reinforcing collars may be formed by holder rings (22), put in position before the pressing stage, and held captive on the cylinder tube, preferably with a slight press fit.

IPC 1-7

F15B 15/14

IPC 8 full level

B60J 7/00 (2006.01); **F15B 15/14** (2006.01); **F16J 10/02** (2006.01)

CPC (source: EP)

F15B 15/1438 (2013.01)

Citation (search report)

- [A] DE 9406613 U1 19940630 - FESTO KG [DE]
- [A] DE 4220415 A1 19931223 - TEVES GMBH ALFRED [DE]
- [A] DE 4002558 A1 19900823 - KNAPP MIKROHYDRAULIK GMBH [DE]
- [A] DE 4413279 A1 19951019 - HAHN GUENTHER [DE]
- [A] US 4323003 A 19820406 - CLIPPARD III WILLIAM L

Cited by

EP1128073A1; FR2790298A1; GB2414043A

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0841488 A2 19980513; **EP 0841488 A3 20000112**; **EP 0841488 B1 20030521**; AT 404393 B 19981125; AT A195596 A 19980315; CZ 288686 B6 20010815; CZ 352397 A3 19980513; DE 59710115 D1 20030626; ES 2201265 T3 20040316

DOCDB simple family (application)

EP 97890204 A 19971014; AT 195596 A 19961108; CZ 352397 A 19971107; DE 59710115 T 19971014; ES 97890204 T 19971014