

Title (en)  
WORKING CYLINDER

Title (de)  
ARBEITSZYLINDER

Title (fr)  
CYLINDRE DE TRAVAIL

Publication  
**EP 1402188 A1 20040331 (DE)**

Application  
**EP 02754684 A 20020615**

Priority  
• DE 20110965 U 20010703  
• EP 0206622 W 20020615

Abstract (en)  
[origin: US6840154B2] A drive cylinder comprising a cylinder barrel (3) extending between two cylinder heads (2a and 2b) and a plurality of ties (13) distributed about the outer periphery of the cylinder barrel (3) and bracing the cylinder heads (2a and 2b). Of these of ties at least one is constituted by a profile part (26) which extends in the peripheral direction (14) of the cylinder barrel (13) some distance along its outer periphery and whose profile provides means for the implementation of at least one additional function.

IPC 1-7  
**F15B 15/14**; **F15B 15/28**

IPC 8 full level  
**F15B 15/14** (2006.01); **F15B 15/28** (2006.01)

CPC (source: EP US)  
**F15B 15/1428** (2013.01 - EP US); **F15B 15/1438** (2013.01 - EP US); **F15B 15/2892** (2013.01 - EP US)

Cited by  
DE102009014815A1; CN102913504A; WO2010108589A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**US 2003172806 A1 20030918**; **US 6840154 B2 20050111**; AT E311540 T1 20051215; CA 2418926 A1 20030207; CN 1297754 C 20070131; CN 1522344 A 20040818; DE 20110965 U1 20010906; DE 50205126 D1 20060105; EP 1402188 A1 20040331; EP 1402188 B1 20051130; WO 03004881 A1 20030116

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**US 34481603 A 20030214**; AT 02754684 T 20020615; CA 2418926 A 20020615; CN 02813458 A 20020615; DE 20110965 U 20010703; DE 50205126 T 20020615; EP 0206622 W 20020615; EP 02754684 A 20020615