

Title (en)  
HYDRAULIC POWER CYLINDER

Title (de)  
HYDRAULISCHER ARBEITSZYLINDER

Title (fr)  
VERIN HYDRAULIQUE

Publication  
**EP 0764241 A1 19970326 (DE)**

Application  
**EP 95920904 A 19950526**

Priority  
• DE 4419213 A 19940601  
• EP 9502020 W 19950526

Abstract (en)  
[origin: DE4419213A1] In the proposed hydraulic power cylinder (1), a ring (10) is mounted in the cutting plane of each of the duct connections (e.g. 6); the ring has a channel (13) which corresponds to the duct connection. This channel (13) communicates at the highest point in the power cylinder (1) with the pressure chamber (e.g. 4) via an inlet aperture (14). The advantage of this arrangement is that the enclosed air is drawn along by the flow when the piston (3) moves. The air reaches the outside via the tank.

IPC 1-7  
**F15B 15/20**; **F15B 21/04**

IPC 8 full level  
**F15B 15/14** (2006.01); **F15B 15/20** (2006.01); **F15B 21/044** (2019.01)

CPC (source: EP US)  
**F15B 15/149** (2013.01 - EP US); **F15B 21/044** (2013.01 - EP US)

Citation (search report)  
See references of WO 9533137A1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**DE 4419213 A1 19951207**; BR 9507807 A 19970916; DE 59501785 D1 19980507; EP 0764241 A1 19970326; EP 0764241 B1 19980401; JP 3576559 B2 20041013; JP H10500759 A 19980120; US 5697287 A 19971216; WO 9533137 A1 19951207

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**DE 4419213 A 19940601**; BR 9507807 A 19950526; DE 59501785 T 19950526; EP 9502020 W 19950526; EP 95920904 A 19950526; JP 50030296 A 19950526; US 73778596 A 19961125