

Title (en)  
RODLESS HYDRAULIC RAM

Publication  
**EP 0177850 B1 19871125 (DE)**

Application  
**EP 85112239 A 19830801**

Priority  
• DE 3229305 A 19820805  
• DE 3313206 A 19830412

Abstract (en)  
[origin: EP0104364A1] 1. Fluid-operated working cylinder with no piston rod, having a power receiver (8) guided in rotation-resistant manner along the cylinder housing (1), which receiver has a cradle-like body (6) which is guided in longitudinally displaceable manner inside a guide chamber (4) extending substantially over the length of the working cylinder, the housing (1') of which guide chamber is firmly connected to the cylinder housing (1) and wherein an actuator (7) on the cradle-like body (6) is guided outwardly out of the guide chamber (4), characterised in that in the cradle-like body (6) there is integrated a brake device (11-14) which co-operates in friction-tight manner with at least one wall section (15, 16; 45, 46, 10) limiting the guide chamber (4) on the inside.

IPC 1-7  
**F15B 15/08**

IPC 8 full level  
**F15B 15/08** (2006.01); **F15B 15/26** (2006.01)

CPC (source: EP)  
**F15B 15/082** (2013.01); **F15B 15/084** (2013.01)

Citation (examination)  
EP 0068088 A1 19830105 - PROMA PROD & MARKETING GMBH [DE]

Cited by  
JPS61241506A; DE3822103A1; EP0447379A1; US5311810A; EP0540015A3; EP0582782A1; US5333535A; EP0542211A1; US5279207A; EP0536799A1; US5275088A; JPH02278003A; US6336393B1

Designated contracting state (EPC)  
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**EP 83107549 A 19830801**; DE 3363754 T 19830801; DE 3374707 T 19830801; EP 85112239 A 19830801