

Title (en)
Rodless hydraulic ram.

Title (de)
Fluidgetriebener kolbenstangenloser Arbeitszylinder.

Title (fr)
Vérin hydraulique sans tige.

Publication
EP 0177850 A1 19860416 (DE)

Application
EP 85112239 A 19830801

Priority
• DE 3229305 A 19820805
• DE 3313206 A 19830412

Abstract (en)
1. Working cylinder without a piston rod, having a power consumer (8) enclosing the cylinder housing (1), constructed as a slide and guided along the cylinder housing (1) without being able to rotate, in which consumer a brake device (35 to 38) with a brake lining (37) cooperating with an external friction surface of the cylinder housing (1) is integrated, characterized in that the cylinder housing (1) has a plurality of flat rolling or sliding ways (41, 42) extending in the longitudinal direction, against which rolling or sliding means (31 to 34 ; 43 and 44) arranged in the power consumer (8) rest so as to prevent rotation thereof, in that the brake lining (37) engages on one side with the cylinder housing (1), and in that at least some of the rolling or sliding means (31 and 32 ; 43 and 44) or slideways (41, 42) are arranged in such a ways as to take up the radial forces occurring in the power consumer (8) during braking.

Abstract (de)
Bei einem fluidgetriebenen kolbenstangenlosen Arbeitszylinder mit längs des Zylindergehäuses (1) verdrehsicher geführtem Kraftabnehmer (8) ist dieser schlittenartig ausgebildet und stützt sich außen am Zylindergehäuse, dieses umfassend, mittels Gleit- oder Rollkörpern ab. Es können am Kraftabnehmer (8) Räder oder Rollen (31-34) gelagert sein, die sich außen an gegenüberliegenden Flächenabschnitten des Zylindergehäuses (1) abstützen. Die Räder oder Rollen (31-34) können durch Gleitbänder oder Gleitbeläge ersetzt sein, die an Profilflächen des Zylindergehäuses (1) und/oder am Kraftabnehmer (8) angebracht sind.

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 (applicant)
• DE 2404244 A1 19750807 - AHRENDT & BIRKENDAHL OHG
• DE 2945133 A1 19810611 - PH MATIC GMBH [DE]

Citation (search report)
• [YD] EP 0029188 A2 19810527 - PH MATIC GMBH [DE]
• [Y] DE 3124915 A1 19830113 - KAISER SIEGMUND H ING GRAD [DE]
• [A] DE 2404244 A1 19750807 - AHRENDT & BIRKENDAHL OHG
• [A] DE 707679 C 19410630 - FRANCESCO MERZ
• [A] DE 1675119 A1 19701210 - BBC BROWN BOVERI & CIE
• [A] FR 1034290 A 19530721
• [A] DE 1187867 B 19650225 - ROCKWELL FEDERN UND ACHSEN A G

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Designated contracting state (EPC)
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EP 0104364 A1 19840404; EP 0104364 B1 19860528; DE 3363754 D1 19860703; DE 3374707 D1 19880107; EP 0177850 A1 19860416; EP 0177850 B1 19871125

DOCDB simple family (application)
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