

Title (en)
Hydraulic cylinder with trunnions

Title (de)
Hydraulikzylinder mit Schwenkzapfen

Title (fr)
Cylindre hydraulique à tourillons

Publication
EP 1264990 A3 20030402 (DE)

Application
EP 02009659 A 20020427

Priority
DE 10122512 A 20010509

Abstract (en)
[origin: US2002166447A1] A hydraulic cylinder unit includes a cylinder tube. A piston is movable in the interior of the cylinder tube in the direction of the cylinder axis. A piston rod has a first end and a second end, the first end being connected to the piston and the second end protruding outside the cylinder tube in the region of the second end of the cylinder tube. A bottom element is located in the region of the first end of the cylinder tube, and it is designed and arranged to seal the first end of the cylinder tube and the interior of the cylinder tube. An oil connection element is located in the region of the bottom element, and it is designed and arranged to allow for oil entering and exiting the interior of the cylinder tube through the oil connection element. A pivot unit includes a thread, and it is designed and arranged to be connected to the cylinder tube by the thread, the pivot unit including at least one pivot element being designed and arranged to support the hydraulic cylinder in a pivotable way. A ring includes a thread, and it is designed and arranged to be connected to the cylinder tube by the thread and to contact the pivot unit. The pivot unit and the ring are designed to be arranged on the cylinder tube in locking engagement in each desired turning position about the cylinder axis with respect to the bottom piece and to the oil connection element.

IPC 1-7
F15B 15/14; F15B 15/04

IPC 8 full level
F15B 15/14 (2006.01)

CPC (source: EP US)
F15B 15/1438 (2013.01 - EP US)

Citation (search report)
• [A] DE 1932116 A1 19700115 - NILSEN HROAR KARSTEN
• [A] US 2940427 A 19600614 - OTTO MUELLER
• [A] EP 0106036 A1 19840425 - SISLER REMO

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

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US 2002166447 A1 20021114; DE 10122512 A1 20021121; DE 10122512 C2 20030528; EP 1264990 A2 20021211; EP 1264990 A3 20030402

DOCDB simple family (application)
US 13565902 A 20020430; DE 10122512 A 20010509; EP 02009659 A 20020427