

Title (en)  
PIVOT ARM DEVICE AND BRIDGE

Title (de)  
SCHWENKARMVORRICHTUNG UND BRÜCKE

Title (fr)  
DISPOSITIF DE BRAS DE PIVOT ET PONT

Publication  
**EP 3438469 A1 20190206 (EN)**

Application  
**EP 17184853 A 20170804**

Priority  
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Abstract (en)  
The invention discloses a pivot arm device comprising a pivot arm rotatable about an axis of rotation. For rotating the pivot arm a hydraulic cylinder is provided. The latter comprises a piston including a first effective area to which pressure medium can be applied in the raising direction of the pivot arm and including a second effective area to which pressure medium can be applied in the lowering direction of the pivot arm. Moreover, the piston includes a third effective area to which pressure medium can be applied in the raising direction and which serves for load compensation.

IPC 8 full level  
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Citation (applicant)  
• US 3376795 A 19680409 - ALLEN EARLE F  
• US 5454127 A 19951003 - DVORAK IVAN [US], et al

Citation (search report)  
• [XYI] US 3186305 A 19650601 - LORIMER JOHN D  
• [XYI] WO 0055435 A1 20000921 - KORTESALMI OSSI [FI]  
• [XYI] JP S5438306 U 19790313  
• [X] WO 2007033491 A1 20070329 - FURGALA GEORGE WOJCIECH [CA]  
• [IY] DE 102007061294 A1 20090618 - SAUER THOMAS [DE]  
• [Y] FR 2631641 A1 19891124 - BAUDIN CHATEAUNEUF [FR]

Designated contracting state (EPC)  
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