

Title (en)
HYDRAULIC CYLINDER DRIVE DEVICE

Title (de)
HYDRAULIKZYLINDERANTRIEBSVORRICHTUNG

Title (fr)
DISPOSITIF D'ENTRAÎNEMENT À VÉRIN HYDRAULIQUE

Publication
EP 3358202 A4 20181010 (EN)

Application
EP 16850879 A 20160803

Priority
• JP 2015190291 A 20150928
• JP 2016072738 W 20160803

Abstract (en)
[origin: EP3358202A1] A hydraulic cylinder drive device includes: a hydraulic cylinder that includes a piston rod actuating a device; a motor generator that functions as a motor actuated by electric power from outside of the device and functions as a generator supplying the electric power to the outside of the device; a first variable displacement pump motor coupled to the motor generator, functions as a hydraulic pump supplying a pressure to a cap-side pressure chamber in the hydraulic cylinder, and functions as a power unit of the motor generator by the pressure supplied from the cap-side pressure chamber; and a second variable displacement pump motor coupled to the motor generator, functions as a hydraulic pump supplying a pressure to a rod-side pressure chamber in the hydraulic cylinder, and functions as a power unit of the motor generator by the pressure supplied from the rod-side pressure chamber.

IPC 8 full level
F15B 21/14 (2006.01); **B66F 9/00** (2006.01); **E02F 9/22** (2006.01); **F15B 11/00** (2006.01); **F15B 11/17** (2006.01)

CPC (source: EP KR)
E02F 9/2095 (2013.01 - EP); **E02F 9/2217** (2013.01 - EP); **E02F 9/2235** (2013.01 - EP); **E02F 9/2239** (2013.01 - KR); **E02F 9/226** (2013.01 - EP); **E02F 9/2292** (2013.01 - EP); **E02F 9/2296** (2013.01 - EP); **F15B 11/00** (2013.01 - KR); **F15B 11/17** (2013.01 - EP); **F15B 21/14** (2013.01 - EP KR); **F15B 2211/20515** (2013.01 - EP); **F15B 2211/20546** (2013.01 - EP KR); **F15B 2211/20569** (2013.01 - EP); **F15B 2211/20576** (2013.01 - EP KR); **F15B 2211/27** (2013.01 - EP); **F15B 2211/6309** (2013.01 - EP); **F15B 2211/6313** (2013.01 - EP); **F15B 2211/6652** (2013.01 - EP); **F15B 2211/7053** (2013.01 - EP); **F15B 2211/761** (2013.01 - EP); **F15B 2211/785** (2013.01 - EP); **F15B 2211/88** (2013.01 - EP)

Citation (search report)
• [X] EP 1288507 A2 20030305 - AEROQUIP VICKERS INTERNAT GMBH [DE]
• [X] DE 102012006981 A1 20131010 - SCHULER SMG GMBH & CO KG [DE]
• See references of WO 2017056702A1

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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
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