

Title (en)
DUAL-ACTING EXPANSION CYLINDER WITH ADAPTIVE SUPPORT

Title (de)
DOPPELTWIRKENDER EXPANSIONSZYLINDER MIT ADAPTIVEM TRÄGER

Title (fr)
CYLINDRE DETENDEUR A DOUBLE EFFET A SUPPORT ADAPTATIF

Publication
EP 3350433 A1 20180725 (FR)

Application
EP 16775804 A 20160907

Priority
• FR 1558585 A 20150914
• FR 2016052232 W 20160907

Abstract (en)
[origin: CA2998581A1] The dual-acting expansion cylinder (1) comprises a cylinder barrel (71) which collaborates with a dual-acting expansion piston (2) connected to transmission means (3) housed in a transmission casing (8), while a hollowed pillar (13), the ends of which are articulated, has passing through it a rod tunnel and bears against the said casing (8) so as to support the said barrel (71), a tension bolt (17), likewise articulated, passing through the said tunnel to clamp the cylinder barrel (71) to the hollowed-out pillar (13) whereas lower cylinder centring means (20) and upper cylinder centring means (21) secured to the transmission casing (8) notably via a centring portal (22) leave the cylinder barrel (71) free to move parallel to its longitudinal axis but not in the plane perpendicular to the said axis.

IPC 8 full level
F02G 1/053 (2006.01)

CPC (source: EP KR)
F02G 1/053 (2013.01 - EP KR); **F02G 2270/55** (2013.01 - EP KR)

Cited by
WO2023152451A1; FR3132737A1; WO2023152701A1; FR3132747A1; US12000357B2

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)
BA ME

DOCDB simple family (publication)
FR 3041040 A1 20170317; **FR 3041040 B1 20171103**; AU 2016321973 A1 20180419; AU 2016321973 B2 20200702;
CA 2998581 A1 20170323; CA 2998581 C 20231212; CN 108138694 A 20180608; CN 108138694 B 20201106; EP 3350433 A1 20180725;
EP 3350433 B1 20190807; ES 2751760 T3 20200401; JP 2018530697 A 20181018; JP 6876035 B2 20210526; KR 20180052657 A 20180518;
WO 2017046479 A1 20170323

DOCDB simple family (application)
FR 1558585 A 20150914; AU 2016321973 A 20160907; CA 2998581 A 20160907; CN 201680056803 A 20160907; EP 16775804 A 20160907;
ES 16775804 T 20160907; FR 2016052232 W 20160907; JP 2018513286 A 20160907; KR 20187009338 A 20160907