

Title (en)  
DOUBLE-ACTING HYDRAULIC CYLINDER

Title (de)  
DOPPELTWIRKENDER HYDRAULIKZYLINDER

Title (fr)  
CYLINDRE HYDRAULIQUE À DOUBLE EFFET

Publication  
**EP 3322903 A1 20180523 (DE)**

Application  
**EP 16736882 A 20160711**

Priority  
• DE 102015111403 A 20150714  
• EP 2016066438 W 20160711

Abstract (en)  
[origin: WO2017009291A1] A double-acting hydraulic cylinder (10) comprises a first cylinder housing (14) and a piston (26) which is guided in the first cylinder housing (14), wherein a first pressure chamber (36) and a second pressure chamber (38) are provided in the first cylinder housing (14), which pressure chambers (36, 38) are separated from one another by way of the piston (26). A first connector (32) serves at least to feed a hydraulic liquid to the first pressure chamber (36), and a second connector (34) serves at least to feed the hydraulic liquid to the second pressure chamber (38). Furthermore, a second cylinder housing (16) surrounds the first cylinder housing (14) at least in one section (41). The first connector (32) and the second connector (34) are arranged at an end of the double-acting hydraulic cylinder (10) which faces away from the second pressure chamber (38). The second pressure chamber (38) can be loaded with the hydraulic liquid via the section (41), in which the second cylinder housing (16) surrounds the first cylinder housing (14).

IPC 8 full level  
**F15B 15/14** (2006.01)

CPC (source: EP KR US)  
**F15B 15/1438** (2013.01 - KR); **F15B 15/149** (2013.01 - EP KR US); **A61G 13/00** (2013.01 - US); **F15B 15/1438** (2013.01 - EP US); **F15B 2211/7053** (2013.01 - EP KR US)

Citation (search report)  
See references of WO 2017009291A1

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)  
**WO 2017009291 A1 20170119**; BR 112018000735 A2 20180904; CN 107923421 A 20180417; CN 107923421 B 20191220; DE 102015111403 A1 20170119; EP 3322903 A1 20180523; EP 3322903 B1 20220302; JP 2018520322 A 20180726; JP 6945519 B2 20211006; KR 20180030591 A 20180323; RU 2018105075 A 20190814; US 10514050 B2 20191224; US 2018156247 A1 20180607

DOCDB simple family (application)  
**EP 2016066438 W 20160711**; BR 112018000735 A 20160711; CN 201680050556 A 20160711; DE 102015111403 A 20150714; EP 16736882 A 20160711; JP 2018501307 A 20160711; KR 20187003777 A 20160711; RU 2018105075 A 20160711; US 201815871795 A 20180115