

Title (en)
APPARATUS AND METHOD

Title (de)
VORRICHTUNG UND VERFAHREN

Title (fr)
APPAREIL ET PROCÉDÉ

Publication
EP 3455471 A4 20200108 (EN)

Application
EP 16901319 A 20160513

Priority
CN 2016082000 W 20160513

Abstract (en)
[origin: WO2017193364A1] An apparatus configured to control fluid distribution between at least one fluid circulation system (2) associated with equipment (3) and at least two replaceable fluid containers (4), the apparatus having: a fluid path (5) configured to couple to at least one fluid port (6) of the fluid circulation system (2), and to at least one fluid port (7) of each of the replaceable fluid containers (4), the fluid path (5) having at least one valve (8) between the fluid circulation system (2) and at least one replaceable fluid container (4); and a control apparatus (9) configured to control the at least one valve (8) to control the flow of fluid between the fluid circulation system (2) and the at least two replaceable fluid containers (4).

IPC 8 full level
F01M 11/04 (2006.01); **F16H 57/04** (2010.01); **F16N 19/00** (2006.01); **F16N 37/00** (2006.01)

CPC (source: EP US)
F01M 11/04 (2013.01 - EP US); **F01M 11/0458** (2013.01 - EP); **F16H 57/0408** (2013.01 - EP); **F16H 57/045** (2013.01 - EP); **F16N 19/00** (2013.01 - EP); **F16N 37/00** (2013.01 - EP); **G05D 11/132** (2013.01 - US); **F01M 2011/0483** (2013.01 - EP US); **F03D 15/00** (2016.05 - EP); **F03D 80/70** (2016.05 - EP)

Citation (search report)

- [X] JP H09100711 A 19970415 - KUBOTA KK
- [X] US 2010200609 A1 20100812 - CADIGAN DANIEL J [US]
- [X] JP 2006242160 A 20060914 - NISSAN MOTOR
- [X] US 5957170 A 19990928 - BEDI RAM D [US], et al
- [X] EP 0048070 A1 19820324 - CLOISALL PATENT AG [CH]
- [A] WO 2015177318 A1 20151126 - CASTROL LTD [GB], et al
- See references of WO 2017193364A1

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

DOCDB simple family (publication)
WO 2017193364 A1 20171116; AU 2016406284 A1 20181115; BR 112018073223 A2 20190219; CA 3023779 A1 20171116; CN 109563749 A 20190402; EP 3455471 A1 20190320; EP 3455471 A4 20200108; JP 2019519709 A 20190711; MX 2018013927 A 20190404; RU 2018143233 A 20200616; SG 11201809758S A 20181228; US 2019136727 A1 20190509; ZA 201807400 B 20190828

DOCDB simple family (application)
CN 2016082000 W 20160513; AU 2016406284 A 20160513; BR 112018073223 A 20160513; CA 3023779 A 20160513; CN 201680087622 A 20160513; EP 16901319 A 20160513; JP 2018559717 A 20160513; MX 2018013927 A 20160513; RU 2018143233 A 20160513; SG 11201809758S A 20160513; US 201616300948 A 20160513; ZA 201807400 A 20181105