

Title (en)
CHANGEOVER VALVE

Title (de)
WECHSELVENTIL

Title (fr)
SOUPAPE À DEUX VOIES

Publication
EP 3209910 A1 20170830 (DE)

Application
EP 15763522 A 20150903

Priority
• DE 102014015628 A 20141022
• EP 2015070132 W 20150903

Abstract (en)
[origin: WO2016062445A1] The invention relates to a changeover valve (10), comprising a spherical valve body (24), which lies against a first valve seat (20) in a first position and lies against a second valve seat (22) in a second position, wherein an opening is provided in a region (28) between the first valve seat (20) and the second valve seat (22), which opening is adjoined by a further line (32), which ends at an outlet connection (34) of the changeover valve (10), wherein the valve body (24) has a diameter dKugel, and wherein at most a circle having a diameter deinschreib can be inscribed in a projected area defined by an orthogonal projection of the opening (30) onto a selected projection plane (38), wherein deinschreib < dKugel, and wherein the projected area is noncircular when the diameter deinschreib of the inscribed circle reaches a maximum in dependence on the selected projection plane (38).

IPC 8 full level
F16K 11/056 (2006.01); **F16K 27/02** (2006.01)

CPC (source: CN EP KR RU US)
F16K 1/36 (2013.01 - KR); **F16K 1/42** (2013.01 - KR); **F16K 11/044** (2013.01 - RU); **F16K 11/056** (2013.01 - CN EP KR RU US);
F16K 27/0245 (2013.01 - CN EP KR US); **F16K 27/0263** (2013.01 - US)

Citation (search report)
See references of WO 2016062445A1

Citation (examination)
US 315521 A 18850414

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)
DE 102014015628 A1 20160428; CN 107076319 A 20170818; EP 3209910 A1 20170830; JP 2017535727 A 20171130;
KR 20170042780 A 20170419; RU 2669990 C1 20181017; US 2017307089 A1 20171026; WO 2016062445 A1 20160428

DOCDB simple family (application)
DE 102014015628 A 20141022; CN 201580057562 A 20150903; EP 15763522 A 20150903; EP 2015070132 W 20150903;
JP 2017517654 A 20150903; KR 20177007524 A 20150903; RU 2017117219 A 20150903; US 201515520609 A 20150903