

Title (en)
ANTI-AIRLOCK VALVE ASSEMBLY

Title (de)
VENTILANORDNUNG GEGEN LUFTEINSCHLUSS

Title (fr)
ENSEMBLE SOUPAPE ANTI-BULLES D'AIR

Publication
EP 3111093 A4 20171122 (EN)

Application
EP 15754789 A 20150224

Priority
• US 201414193210 A 20140228
• US 2015017177 W 20150224

Abstract (en)
[origin: US2015247501A1] A pump, having a pump housing with an impeller arranged therein, features an anti-airlock valve assembly configured with a valve housing having a passageway configured with a vent hole to allow air to bleed out of the pump housing into the atmosphere so liquid can fill the pump housing, rise and engage the impeller in order to get the pump running; and a valve ball arranged in the passageway, the valve ball configured to rest against one part of the passageway so air can pass out of the vent hole, and also configured to be light or buoyant enough to respond to the liquid filling the pump housing, float upwardly and rest against another part of the passageway so as not to allow water to escape readily from the vent hole after the liquid rises to a sufficient level and substantially engages the impeller.

IPC 8 full level
F04D 1/00 (2006.01); **F04D 9/00** (2006.01); **F04D 9/02** (2006.01)

CPC (source: EP US)
F04D 1/00 (2013.01 - EP US); **F04D 9/002** (2013.01 - US); **F04D 9/003** (2013.01 - EP US)

Citation (search report)
• [IA] US 2003235506 A1 20031225 - ICHINOSE TAKEO [JP]
• [A] US 1944249 A 19340123 - LENCKE JOHN K
• [A] US 5472054 A 19951205 - HINDS ARRON C [US]
• [A] US 2009000667 A1 20090101 - BOTTURA CESARE [IT]
• [A] US 2005089420 A1 20050428 - LAING KARSTEN [DE]
• See references of WO 2015130620A2

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)
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CN 106104002 A 20161109; EP 3111093 A2 20170104; EP 3111093 A4 20171122; WO 2015130620 A2 20150903;
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US 201414193210 A 20140228; AU 2015223265 A 20150224; AU 2018205135 A 20180712; CA 2940847 A 20150224;
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