

Title (en)
WATER LIFTING SYSTEM AND METHOD HAVING SUCH A SYSTEM

Title (de)
WASSERHEBESYSTEM UND VERFAHREN MIT EINEM SOLCHEN SYSTEM

Title (fr)
SYSTÈME ÉLÉVATEUR D'EAU ET PROCÉDÉ COMPRENANT UN TEL SYSTÈME

Publication
EP 2791512 B1 20200101 (DE)

Application
EP 12794267 A 20121122

Priority
• DE 102011088246 A 20111212
• EP 2012073301 W 20121122

Abstract (en)
[origin: WO2013087387A1] The invention relates to a water lifting system, in particular a fire extinguishing system for offshore installations, such as oil and/or gas production platforms or ships or the like, comprising a pump (3) having a suction opening and an output opening, a pump-turbine assembly (6) having a pump unit (4) and a turbine unit (5), wherein the pump unit (4) and the turbine unit (5) each have a suction or input opening and an output opening, and a line (7) connecting the output opening of the pump unit (4) of the pump-turbine assembly and the suction opening of the pump (3) and conducting a volume flow (QS). According to the invention, the volume flow (QS) comprises a first partial volume flow (QF) and a second partial volume flow (QT), wherein a line (10) conducting the first partial volume flow (QF) is connected to at least one water extraction point and a line (11) conducting the second partial volume flow (QT) is connected to the input opening of the turbine unit (5) of the pump-turbine assembly (6). The invention further relates to a method having such a system.

IPC 8 full level
F04D 1/06 (2006.01); **A62C 3/10** (2006.01); **A62C 29/00** (2006.01); **F04D 9/04** (2006.01); **F04D 13/04** (2006.01)

CPC (source: EP US)
A62C 3/10 (2013.01 - US); **A62C 29/00** (2013.01 - US); **A62C 31/28** (2013.01 - US); **F04D 1/06** (2013.01 - EP US); **F04D 9/04** (2013.01 - EP US); **F04D 13/04** (2013.01 - EP US); **F04D 13/06** (2013.01 - US); **F04D 13/14** (2013.01 - EP US); **Y10T 137/0318** (2015.04 - EP US); **Y10T 137/86067** (2015.04 - EP US); **Y10T 137/86147** (2015.04 - EP US)

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)
DE 102011088246 A1 20130613; AR 090042 A1 20141015; BR 112014014171 A2 20170613; BR 112014014171 A8 20170613; BR 112014014171 A8 20180731; BR 112014014171 B1 20210413; CN 104126073 A 20141029; EP 2791512 A1 20141022; EP 2791512 B1 20200101; IN 1226KON2014 A 20151016; MX 2014006340 A 20140623; US 2014299196 A1 20141009; WO 2013087387 A1 20130620

DOCDB simple family (application)
DE 102011088246 A 20111212; AR P120104716 A 20121214; BR 112014014171 A 20121122; CN 201280061032 A 20121122; EP 12794267 A 20121122; EP 2012073301 W 20121122; IN 1226KON2014 A 20140606; MX 2014006340 A 20121122; US 201214364347 A 20121122