

Title (en)  
RISER FLOW CONTROL

Title (de)  
STEIGROHRFLUSSSTEUERUNG

Title (fr)  
RÉGULATION DE DÉBIT DE COLONNE MONTANTE

Publication  
**EP 3019688 A1 20160518 (EN)**

Application  
**EP 14741974 A 20140709**

Priority  
• NL 2011156 A 20130712  
• NL 2014050464 W 20140709

Abstract (en)  
[origin: WO2015005782A1] Deep sea mining method comprising: - excavating matter (2), which may comprise gashydrates, at a bottom (9) of a body of water (3), - operating a riser system (4) for transporting a slurry (13) of matter and water, - transporting the slurry from the bottom of a body of water upwards to a slurry processing base (6), - maintaining a controlled riser system pressure, higher than the environmental pressure, inside the riser system for avoiding forming or release of gas and expanding of gas contained in the slurry during transporting the slurry.

IPC 8 full level  
**E02F 3/88** (2006.01); **E02F 3/90** (2006.01); **E02F 7/06** (2006.01); **E21B 17/01** (2006.01); **E21C 50/00** (2006.01)

CPC (source: EP US)  
**E02F 3/8866** (2013.01 - EP US); **E02F 3/90** (2013.01 - EP US); **E02F 3/905** (2013.01 - US); **E02F 3/907** (2013.01 - EP US);  
**E02F 7/065** (2013.01 - EP US); **E21B 17/01** (2013.01 - EP US); **E21B 17/015** (2013.01 - EP US); **E21C 50/00** (2013.01 - EP US)

Citation (search report)  
See references of WO 2015005782A1

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 2015005782 A1 20150115**; CA 2918079 A1 20150115; CN 105378214 A 20160302; EP 3019688 A1 20160518; JP 2016528405 A 20160915; KR 20160029855 A 20160315; NL 2011156 C2 20150113; RU 2016104555 A 20170817; US 2016153169 A1 20160602

DOCDB simple family (application)  
**NL 2014050464 W 20140709**; CA 2918079 A 20140709; CN 201480039774 A 20140709; EP 14741974 A 20140709; JP 2016525317 A 20140709; KR 20167003675 A 20140709; NL 2011156 A 20130712; RU 2016104555 A 20140709; US 201414904636 A 20140709