

Title (en)

VORTEX-INDUCED VIBRATION (VIV) SUPPRESSION OF RISER ARRAYS

Title (de)

UNTERDRÜCKUNG VORTEXINDUZIERTER VIBRATIONEN (VIV) VON HEBEVORRICHTUNGEN

Title (fr)

SUPPRESSION DES VIBRATIONS INDIQUES PAR VORTEX (VIV) DANS DES RÉSEAUX DE COLONNES MONTANTES

Publication

EP 2379895 A4 20140423 (EN)

Application

EP 09839028 A 20091217

Priority

- US 2009068513 W 20091217
- US 14652609 P 20090122

Abstract (en)

[origin: WO2010085302A2] A system comprising an array of structures in a flowing fluid environment, the array comprising at least 3 structures; and vortex induced vibration suppression devices on at least 2 of the structures.

IPC 8 full level

B63B 21/50 (2006.01); **E21B 17/01** (2006.01); **F15D 1/10** (2006.01); **F25J 1/02** (2006.01)

CPC (source: EP KR US)

B63B 13/00 (2013.01 - KR); **B63B 21/502** (2013.01 - EP KR US); **B63J 2/12** (2013.01 - KR); **E21B 17/01** (2013.01 - KR);
F15D 1/10 (2013.01 - EP KR US); **F25J 1/0022** (2013.01 - EP KR US); **F25J 1/0278** (2013.01 - EP KR US); **F25J 1/0297** (2013.01 - EP KR US);
B63B 13/00 (2013.01 - EP US); **B63B 2021/504** (2013.01 - EP KR US); **B63J 2/12** (2013.01 - EP US)

Citation (search report)

- [XYI] US 2008044235 A1 20080221 - HORTON EDWARD E [US], et al
- [XI] WO 0061433 A1 20001019 - SHELL INT RESEARCH [NL], et al
- [I] US 2004253059 A1 20041216 - HORTON EDWARD E [US]
- [YD] US 6832875 B2 20041221 - BLIAULT ALAN EDGAR JOHN [NL], et al
- [A] US 6206614 B1 20010327 - BLEVINS ROBERT D [US], et al
- [A] US 5410979 A 19950502 - ALLEN DONALD W [US], et al
- [A] WO 2004085238 A1 20041007 - SHELL INT RESEARCH [NL], et al
- [I] YIANNIS CONSTANTINIDES ET AL: "OMAE2006-92674 ANALYSIS OF TURBULENT FLOWS AND VIV OF TRUSS SPAR RISERS", 1 January 2006 (2006-01-01), XP055108454, Retrieved from the Internet <URL:<http://www.altairhyperworks.com/html/en-us/rl/ACUSIM/papers/OMAE2006-92674.pdf>> [retrieved on 20140318]
- [I] DON ALLEN ET AL: "Performance Comparisons of Helical Strakes for VIV Suppression of Risers and Tendons", PROCEEDINGS OF OFFSHORE TECHNOLOGY CONFERENCE, 1 January 2004 (2004-01-01), pages 1 - 10, XP055108460, ISBN: 978-1-55-563251-9, DOI: 10.4043/16186-MS
- See references of WO 2010085302A2

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

WO 2010085302 A2 20100729; WO 2010085302 A3 20100916; AP 2011005778 A0 20110831; AP 3188 A 20150331;
AU 2009338154 A1 20110721; AU 2009338154 B2 20130829; BR PI0924141 A2 20170829; CN 102292556 A 20111221;
CY 1123074 T1 20211029; DK 201170321 A 20110622; EP 2379895 A2 20111026; EP 2379895 A4 20140423; EP 2379895 B1 20200415;
KR 101721843 B1 20170331; KR 20110117096 A 20111026; MX 2011007271 A 20110808; RU 2011134832 A 20130227;
US 2012006053 A1 20120112

DOCDB simple family (application)

US 2009068513 W 20091217; AP 2011005778 A 20091217; AU 2009338154 A 20091217; BR PI0924141 A 20091217;
CN 200980155122 A 20091217; CY 201100586 T 20200624; DK PA201170321 A 20110622; EP 09839028 A 20091217;
KR 20117016986 A 20091217; MX 2011007271 A 20091217; RU 2011134832 A 20091217; US 200913145349 A 20091217