

Title (en)  
FACILITY HAVING FANNED SEABED-TO-SURFACE CONNECTIONS

Title (de)  
ANLAGE AUS FÄCHERFÖRMIG ANGEORDNETEN GRUND-OBERFLÄCHEN-VERBINDUNGEN

Title (fr)  
INSTALLATION DE LIAISONS FOND-SURFACE DISPOSEES EN EVENTAIL

Publication  
**EP 2501889 B1 20130807 (FR)**

Application  
**EP 10785475 A 20101015**

Priority  
• FR 0958096 A 20091117  
• FR 2010052197 W 20101015

Abstract (en)  
[origin: WO2011061422A1] The present invention relates to a facility having fanned seabed-to-surface connections, said facility including a plurality of seabed-to-surface connections fanning out from a single floating substrate (1) including: 1) at least one first number (k) of first seabed-to-surface connections (3, 3-i with i = 1 to k) that each include a) a first riser, (3b, 3b-i) connected to a first underwater pipe (3e-i) resting on the seabed and tensioned in a substantially vertical manner by a first float (3c-i), and 10 b) a plunging first flexible connection pipe (3a, 3a-i) that ensures the connection between said floating substrate and said first riser; and 2) at least a second number (m) of second seabed-to-surface connections (4, 4-j with j = 1 to m) that include 2a) a second rigid pipe (4b, 4b-j) connected to a second underwater pipe (4e-j) resting on the seabed and tensioned by a second buoyancy element (4c, 4c-j), and 2b) a second flexible connection pipe (4a, 4a-j with j = 1 to m) ensuring the connection between said floating substrate (1) and said 20 second rigid pipe, each of said second flexible pipes passing through a chute (6, 6a-6b) attached to said first float.

IPC 8 full level  
**E21B 17/01** (2006.01)

CPC (source: EP US)  
**E21B 17/01** (2013.01 - EP US); **E21B 17/015** (2013.01 - 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)  
**FR 2952671 A1 20110520; FR 2952671 B1 20111209**; BR 112012011697 A2 20180327; BR 112012011697 B1 20191203;  
EP 2501889 A1 20120926; EP 2501889 B1 20130807; US 2012230770 A1 20120913; US 8647019 B2 20140211; WO 2011061422 A1 20110526

DOCDB simple family (application)  
**FR 0958096 A 20091117**; BR 112012011697 A 20101015; EP 10785475 A 20101015; FR 2010052197 W 20101015;  
US 201013510380 A 20101015