

Title (en)  
OFFSHORE LOADING SYSTEM BY SUSPENDED PIPING

Title (de)  
VORRICHTUNG ZUM OFFSHORE BELADEN MITTELS HÄNGELEITUNGEN

Title (fr)  
SYSTEME DE CHARGEMENT OFFSHORE PAR TUYAUTERIE SUSPENDUE

Publication  
**EP 1196347 A2 20020417 (FR)**

Application  
**EP 00949684 A 20000707**

Priority

- FR 0001978 W 20000707
- FR 9909092 A 19990713

Abstract (en)  
[origin: WO0104041A2] The invention concerns an assembly for transferring fluid (13) between a first site and a second site, comprising: a winch (40) for the first site (10) whereon is wound a suspension cable (17) designed to be stretched between the two sites (10, 11) and which is adapted to subject the cable to constant tension; a support (14) for the first site and for storing in suspension rigid pipe sections (15) mutually articulated via articulating sections (16) with rotary bends and joints, so as to shift from a storage position wherein the pipe sections (15) are suspended accordion-like to the support (14) to a stretched position between the two sites (10, 11) by being suspended to the cable; and means for coupling (22) some of the articulating sections (16) to the support (14) or to the cable (17) depending on the length of the cable stretched between the two sites (10, 11).

IPC 1-7  
**B67D 5/70**

IPC 8 full level  
**B67D 9/02** (2010.01); **B63B 27/24** (2006.01); **B63B 27/34** (2006.01)

CPC (source: EP KR US)  
**B63B 27/24** (2013.01 - EP US); **B67D 9/00** (2013.01 - KR); **B67D 9/02** (2013.01 - EP US); **Y10T 137/8807** (2015.04 - EP US)

Citation (search report)  
See references of WO 0104041A2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 0104041 A2 20010118; WO 0104041 A3 20020926**; AT E261910 T1 20040415; AU 6296300 A 20010130; CA 2378652 A1 20010118; CA 2378652 C 20091222; CN 1223507 C 20051019; CN 1420841 A 20030528; DE 60009073 D1 20040422; DE 60009073 T2 20041104; EP 1196347 A2 20020417; EP 1196347 B1 20040317; ES 2218188 T3 20041116; FR 2796375 A1 20010119; FR 2796375 B1 20011012; JP 2003511284 A 20030325; JP 3987721 B2 20071010; KR 100643554 B1 20061110; KR 20020035834 A 20020515; NO 20020136 D0 20020111; NO 20020136 L 20020311; NO 323762 B1 20070702; PT 1196347 E 20040831; RU 2246443 C2 20050220; US 6719008 B1 20040413; ZA 200200023 B 20030728

DOCDB simple family (application)  
**FR 0001978 W 20000707**; AT 00949684 T 20000707; AU 6296300 A 20000707; CA 2378652 A 20000707; CN 00810214 A 20000707; DE 60009073 T 20000707; EP 00949684 A 20000707; ES 00949684 T 20000707; FR 9909092 A 19990713; JP 2001509663 A 20000707; KR 20027000434 A 20020111; NO 20020136 A 20020111; PT 00949684 T 20000707; RU 2002103385 A 20000707; US 3085802 A 20020508; ZA 200200023 A 20020102