Title (en)

METHOD FOR ESTABLISHING A FOUNDATION IN A SEABED FOR AN OFFSHORE FACILITY AND THE FOUNDATION ACCORDING TO THE METHOD

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES FUNDAMENTS FÜR OFFSHORE-INSTALLATIONEN IM MEERESBODEN SOWIE ENTSPRECHENDES FUNDAMENT

Title (fr)

PROCEDE DE REALISATION DANS UN FOND MARIN DE LA FONDATION D'UNE INSTALLATION OFF SHORE, ET FONDATION ASSOCIEE

Publication

EP 1268947 B1 20080102 (EN)

Application

EP 01915111 A 20010322

Priority

• DK 0100189 W 20010322
• DK PA200000490 A 20000323

Abstract (en)

[origin: WO0171105A1] A foundation according to the invention for offshore facilities, preferably at shallow depths, has a substantially bell-shaped bottom part (1) of steel plate with a central cavity (21) and peripheral pressure tight chambers (25) which are separated by bulk-heads (23). The foundation is brought down into seabed or lake bottom (10) consisting of sand. After placing on the bed, according to the invention there is created underpressure in the chambers (25) so that a water current occurs through the bed layer around lower rims (17, 19) of the bottom part. Thereby the bed material is fluidised under the rims (17, 19), and the foundation sinks down into the bed by its dead load. The fluidization may be varied along different parts of the rims (17, 19) by providing different pressures in different chambers (25) whereby the foundation may be righted during the bringing down and thereby compensate for uneven bed etc. By the invention, the use of heavy concrete caissons may be avoided, and allowance is made for environmental demands regarding removal of the foundations after use as the foundation according to the invention weighs considerably less and is easier to remove.

IPC 8 full level

E02D 27/52 (2006.01); **E02B 17/02** (2006.01)

CPC (source: EP)

E02B 17/0021 (2013.01); **E02B 17/02** (2013.01); E02B 2017/0078 (2013.01)

Cited by

NL2027173A; US11261575B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

Designated extension state (EPC)

LT LV

DOCDB simple family (publication)

WO 0171105 A1 20010927; AT E382746 T1 20080115; AU 4231101 A 20011003; DE 60132182 D1 20080214; DE 60132182 T2 20090102; DK 1268947 T3 20080513; EP 1268947 A1 20030102; EP 1268947 B1 20080102; ES 2299477 T3 20080601; PT 1268947 E 20080411

DOCDB simple family (application)

DK 0100189 W 20010322; AT 01915111 T 20010322; AU 4231101 A 20010322; DE 60132182 T 20010322; DK 01915111 T 20010322; EP 01915111 A 20010322; ES 01915111 T 20010322; PT 01915111 T 20010322