

Title (en)  
OFFSHORE FOUNDATION, AND PRODUCTION METHOD

Title (de)  
OFFSHORE-FUNDAMENT SOWIE HERSTELLUNGSVERFAHREN

Title (fr)  
FONDATION OFFSHORE ET PROCÉDÉ DE CONSTRUCTION

Publication  
**EP 2893086 B1 20160824 (DE)**

Application  
**EP 13771360 A 20130829**

Priority  
• DE 102012108166 A 20120903  
• DE 2013100311 W 20130829

Abstract (en)  
[origin: WO2014032658A2] The invention relates to an offshore foundation (4) for a monopile (1) of an offshore power plant, in particular wind power plant or hydroelectric power plant, for securing the monopile in and on the sea bed (2) using stone, wherein the offshore foundation (4) consists exclusively of loose, broken stones (41) which are piled up on the sea bed (2), and are in the form of a widely graded mix with stone sizes ranging from 1 mm to 200 mm, and the piled-up stones (41) sediment conically, at least frustoconically, together, wherein the stones (41) are arranged on the sea bed (2) at a certain point, where the monopile (1) will later be located, and are compacted, at least sedimented, exclusively under their own weight. The invention also relates to a production method for an offshore foundation (4) for and with a monopile (1) of an offshore power plant, at least one wind, solar or hydroelectric power plant, for securing the monopile (1) in and on the sea bed (2), the method having the following steps: - a stone mix made up of loose and broken stones (41) in the form of a widely graded mix with stone sizes ranging from 1 mm to 200 mm is piled up, up to the height M, at a certain point of the sea bed (2); - the piled-up stones (41) self-sediment to form a truncated cone, at least one cone; - the monopile (1) is introduced directly into, and through, the offshore foundation (4) by ramming, drilling and/or vibration, the monopile ultimately being introduced (h3) into the sea bed (2).

IPC 8 full level  
**E02D 29/14** (2006.01)

CPC (source: EP)  
**E02D 27/425** (2013.01); **E02D 29/14** (2013.01); **E02D 15/10** (2013.01)

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)  
**WO 2014032658 A2 20140306; WO 2014032658 A3 20140612**; DE 102012108166 A1 20140515; DK 2893086 T3 20161205; EP 2893086 A2 20150715; EP 2893086 B1 20160824

DOCDB simple family (application)  
**DE 2013100311 W 20130829**; DE 102012108166 A 20120903; DK 13771360 T 20130829; EP 13771360 A 20130829