

Title (en)
CONCRETE SCREW PILE

Title (de)
BETONSCHRAUBPFAHL

Title (fr)
PIEU À VIS EN BÉTON

Publication
EP 2462287 A4 20161116 (EN)

Application
EP 10806092 A 20100802

Priority
• FI 20095832 A 20090807
• FI 2010050613 W 20100802

Abstract (en)
[origin: WO2011015711A1] A helical flange equipped pile drivable into the ground, which in a screwing process pulls itself into the ground, such that the displaced volume of soil is less than the soil volume loosened by the flange in its drilling process, wherein the material of a pile shaft 6 is reinforced concrete, having some of its reinforcement (4, 5) or the like high-tension-resistant structure provided in a helix-shaped spiral (5) or shell, which is attached to pile driving elements and to a segment (3) associated with the helical flange, such that the rotation, established in the process of driving the helical flange into the ground, generates on the helix-shaped segment a tensile force which further generates a compressive force on the concrete.

IPC 8 full level
E02D 5/56 (2006.01)

CPC (source: EP FI)
E02D 5/56 (2013.01 - EP FI); **E02D 5/80** (2013.01 - FI)

Citation (search report)
• [X] US 1070862 A 19130819 - VERNON-INKPEN GEORGE CHARLES [GB]
• [XA] FR 435154 A 19120223 - ARMAND GABRIEL CONSIDERE [FR]
• See references of WO 2011015711A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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