

Title (en)

Displacement drilling tool and equipment using said tool

Title (de)

Verdrängerbohrer und Gerät, welches den Bohrer benutzt

Title (fr)

Foret de déplacement et appareil utilisant ce foret

Publication

**EP 1277887 A2 20030122 (EN)**

Application

**EP 02291716 A 20020709**

Priority

GB 0117410 A 20010717

Abstract (en)

A drilling tool to make piles in the soil comprising a stem 12 having a tip 16, an upper end 18 and a longitudinal axis to be connected to at least one rotating follower tube, and a helical flight 20 surrounding said stem. Said drilling tool is characterised in that the external diameter of said stem 12 decreases from the upper end to said tip, said helical flight has a substantially constant external diameter and in that it further comprises cutter means 24 fixed to said helical flight close to said tip, said cutter means projecting outside said helical flight and extending along a direction substantially perpendicular to said longitudinal axis. <IMAGE>

IPC 1-7

**E02D 5/36**; E02D 5/66; E02D 7/22; E21B 7/26; E21B 10/44; E21B 10/62

IPC 8 full level

**E02D 5/36** (2006.01); **E21B 7/26** (2006.01); **E21B 10/44** (2006.01)

CPC (source: EP US)

**E02D 5/36** (2013.01 - EP); **E21B 7/267** (2020.05 - EP US); **E21B 10/44** (2013.01 - EP)

Citation (applicant)

- US 6033152 A 20000307 - BLUM KENNETH J [US]
- EP 0693158 A1 19960124 - HARENINVEST [BE]

Cited by

EP2246479A1; NL1027150C2; EP1664474A4; BE1018097A3; MD4011C2; ITTO20090312A1; EP3246502A1; EP2295645A1; EP1942247A1; NL1027112C2; EP2468960A1; ITTO20101047A1; EP3129172A4; US8821072B2; US8550187B2; US10589332B2; WO2019123212A1; US8500370B2; US10443318B2; WO2005019593A2; US8636448B2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**EP 1277887 A2 20030122**; **EP 1277887 A3 20040908**; **EP 1277887 B1 20080827**; AT E406481 T1 20080915; DE 60228527 D1 20081009; ES 2312534 T3 20090301; GB 0117410 D0 20010905; GB 2377235 A 20030108; HK 1052537 A1 20030919; PL 211015 B1 20120330; PL 355067 A1 20030127; PT 1277887 E 20081203

DOCDB simple family (application)

**EP 02291716 A 20020709**; AT 02291716 T 20020709; DE 60228527 T 20020709; ES 02291716 T 20020709; GB 0117410 A 20010717; HK 03103794 A 20030528; PL 35506702 A 20020716; PT 02291716 T 20020709