

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 A3 20040908 (EN)**

Application  
**EP 02291716 A 20020709**

Priority  
GB 0117410 A 20010717

Abstract (en)  
[origin: EP1277887A2] 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 (search report)

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- [Y] EP 0588143 A1 19940323 - STRABAG HOCH UND INGENIEURBAU [DE]
- [Y] GB 2316700 A 19980304 - KVAERNER CEMENTATION FOUND LTD [GB]
- [A] GB 2329204 A 19990317 - BICC PLC [GB]
- [A] US 5722498 A 19980303 - VAN IMPE WILLIAM FRANS [BE], et al
- [A] US 6033152 A 20000307 - BLUM KENNETH J [US]

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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)  
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**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