

Title (en)
Pile drilling apparatus

Title (de)
Pfahlbohrwerkzeug

Title (fr)
Appareil de forage pour pieu

Publication
EP 1640507 A1 20060329 (DE)

Application
EP 04022732 A 20040923

Priority
EP 04022732 A 20040923

Abstract (en)
The pile boring tool (1) has two cutting edges formed upstream of cutting teeth (3) in the boring direction. The cutting edges are spaced apart from one another to form a central free space. An independent claim is also included for boring apparatus.

IPC 8 full level
E02D 5/36 (2006.01); **E21B 7/00** (2006.01)

CPC (source: EP US)
E02D 5/36 (2013.01 - EP US); **E21B 7/006** (2013.01 - EP US)

Citation (applicant)

- DE 4209854 C1 19930722
- DE 4132314 C1 19921217

Citation (search report)

- [XY] GB 774353 A 19570508 - LEON EDMOND CRAPEZ
- [X] US 3529428 A 19700922 - BATTEN JOHN EARL
- [Y] FR 2832438 A1 20030523 - DURMEYER ENTRP TRAVAUX PUBLICS [FR]
- [YA] DE 19517414 A1 19960912 - BILFINGER BERGER BAU [DE]
- [Y] PATENT ABSTRACTS OF JAPAN vol. 009, no. 176 (M - 398) 20 July 1985 (1985-07-20)

Cited by
EP1990167A1; US8118370B2; WO2008135365A1; EP2740882A1; US9376880B2; EP2696027A1; US9567806B2

Designated contracting state (EPC)
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EP 1640507 A1 20060329; JP 2006090120 A 20060406; JP 4031496 B2 20080109; RU 2005127655 A 20070310; RU 2327024 C2 20080620; SG 121098 A1 20060426; US 2006060386 A1 20060323

DOCDB simple family (application)
EP 04022732 A 20040923; JP 2005274895 A 20050922; RU 2005127655 A 20050829; SG 200505670 A 20050907; US 20607805 A 20050818