

Title (en)  
Drilling device

Title (de)  
Bohreinrichtung

Title (fr)  
Dispositif de forage

Publication  
**EP 1666670 A1 20060607 (EN)**

Application  
**EP 05077778 A 20051206**

Priority  
BE 200400594 A 20041206

Abstract (en)  
Drilling device for in situ mixing of soil with a binder to form a pile in the ground, comprising a drivable shaft with a bottom end (2), means mounted (3,9) at the bottom end of the shaft for loosening the soil; injection means for injecting the binder into the loosened soil; wherein a bore-crown (4) is further mounted on the shaft, which bore-crown is provided on at least a part of its periphery with cutting means (6) for overcutting a pile adjacent to the pile for forming.

IPC 8 full level  
**E02D 3/12** (2006.01); **E02D 5/18** (2006.01); **E02D 27/26** (2006.01); **E21B 10/26** (2006.01)

CPC (source: EP US)  
**E02D 3/126** (2013.01 - EP); **E21B 10/26** (2013.01 - EP US)

Citation (search report)

- [Y] US 4902172 A 19900220 - FUKUDA KOSEI [JP]
- [YA] US 4063424 A 19771220 - TAKAGI ATSUSHI, et al
- [A] NL 9100227 A 19920901 - ALEXANDER JULIEN VERSTRAETEN
- [XY] PATENT ABSTRACTS OF JAPAN vol. 008, no. 201 (M - 325) 14 September 1984 (1984-09-14)
- [A] PATENT ABSTRACTS OF JAPAN vol. 006, no. 242 (M - 175) 30 November 1982 (1982-11-30)

Cited by  
CN105672296A; DE102017104879A1; BE1018657A5; CN104846815A; WO2008138390A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
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