

Title (en)
Apparatus and method for subsoil construction

Title (de)
Verfahren und Vorrichtung zum Tiefbau

Title (fr)
Appareil et méthode pour constructions souterraines

Publication
EP 1580398 B1 20120118 (DE)

Application
EP 04006960 A 20040323

Priority
EP 04006960 A 20040323

Abstract (en)
[origin: EP1580398A1] The method involves lowering a tool (5) and guiding it with a telescopic rod with an outer rod in which at least one inner rod is movably accommodated. The tool is attached to the outer rod and is lowered with it. At least one inner rod is first lowered with the outer rod and then pulled out of the outer rod by a movably guided carriage element (20) on the mast (12). An independent claim is also included for a civil engineering device.

IPC 8 full level
E21B 17/07 (2006.01); **E02D 11/00** (2006.01); **E02D 17/13** (2006.01); **E21B 7/02** (2006.01); **E21B 15/00** (2006.01); **E21B 19/08** (2006.01)

CPC (source: EP)
E02D 11/00 (2013.01); **E02D 17/13** (2013.01); **E21B 7/02** (2013.01); **E21B 17/07** (2013.01)

Cited by
EP2067924A1; US8789893B2; EP1860275A1; CN102900361A; EP2390458A1; ITTO20100436A1; EP2378001A1; CN102220838A; FR2944299A1; ITMC20090087A1; EP2067923A1; EP3287588A1; CN109563731A; CN113756384A; EP1847652A1; US2011089745A1; DE102008016673B4; EP3299523A1; EP2226427A3; US8567519B2; WO2017174861A1; US10577913B2; US7905300B2; US11473375B2; WO2009118386A1; WO2018054566A1; WO2018036713A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 1580398 A1 20050928; EP 1580398 B1 20120118

DOCDB simple family (application)
EP 04006960 A 20040323