

Title (en)

METHOD AND WALL MILLING DEVICE FOR CREATING A MILLED SLOT IN THE GROUND

Title (de)

VERFAHREN UND SCHLITZWANDFRÄSVORRICHTUNG ZUM ERSTELLEN EINES FRÄSSCHLITZES IM BODEN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE FRAISAGE DE PAROI DE FENTE PERMETTANT DE CRÉER UNE FENTE FRAISÉE DANS LE SOL

Publication

EP 3819434 B1 20220216 (DE)

Application

EP 19207471 A 20191106

Priority

EP 19207471 A 20191106

Abstract (en)

[origin: CA3154436A1] The invention relates to a trench cutting device and a method for creating a trench in the ground, wherein the trench cutting device comprises a trench cutter and a support unit which is designed for raising and lowering the trench cutter into the ground, wherein the trench cutter is connected to the support unit at its upper end and has at least one cutter wheel at its lower end, which is rotatably mounted and can be rotationally driven via a rotary drive in order to remove ground material, wherein a target value for an advancing speed of the trench cutter when removing ground material can be specified in a control unit, which is used to control a lowering of the trench cutter into the ground via the support unit. For an efficient cutting operation, it is proposed that the advancing speed is controlled by means of the control unit according to a rotational speed and/or a torque of the at least one cutter wheel, wherein the advancing speed of the trench cutter is reduced relative to the target value for the advancing speed when a predefined threshold value is reached for the rotational speed and/or for the torque.

IPC 8 full level

E02D 17/13 (2006.01); **E02F 3/20** (2006.01)

CPC (source: CN EP KR)

E02D 17/13 (2013.01 - CN EP KR); **E02F 3/205** (2013.01 - CN EP KR); **E02F 3/24** (2013.01 - CN); **E02F 3/246** (2013.01 - CN); **E02F 5/08** (2013.01 - CN); **E02F 5/145** (2013.01 - CN)

Citation (opposition)

Opponent : Liebherr-Werk Nenzing GmbH

- EP 0790356 A1 19970820 - HITACHI CONSTRUCTION MACHINERY [JP]
- EP 1477633 B1 20060621 - BAUER MASCHINEN GMBH [DE]
- WO 9705334 A1 19970213 - CEMENTATION PILING & FOUND [GB], et al
- EP 3299523 A1 20180328 - BAUER SPEZIALTIEFBAU [DE]
- EP 0518297 A1 19921216 - BAUER SPEZIALTIEFBAU [DE]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3819434 A1 20210512; **EP 3819434 B1 20220216**; CA 3154436 A1 20210514; CN 114555889 A 20220527; KR 20220065857 A 20220520; WO 2021089603 A1 20210514

DOCDB simple family (application)

EP 19207471 A 20191106; CA 3154436 A 20201104; CN 202080071722 A 20201104; EP 2020080928 W 20201104; KR 20227013292 A 20201104