

Title (en)

SOIL REMOVAL DEVICE AND METHOD FOR CREATING A HOLE IN THE GROUND

Title (de)

BODENABTRAGSVORRICHTUNG UND VERFAHREN ZUM ERSTELLEN EINES LOCHES IM BODEN

Title (fr)

DISPOSITIF D'ENLÈVEMENT DE SOL ET PROCÉDÉ DE PRODUCTION D'UN TROU DANS LE SOL

Publication

**EP 3819433 B1 20221228 (DE)**

Application

**EP 19207440 A 20191106**

Priority

EP 19207440 A 20191106

Abstract (en)

[origin: WO2021089627A1] The invention relates to a ground removal device and a method for producing a hole in the ground by means of a removal tool, which is designed and can be driven for the removal of ground material. According to the invention, at least one image-capturing unit is arranged on the removal tool, which is designed for creating an image of the upcoming ground when introducing the removal tool into the ground and removing ground material.

IPC 8 full level

**E02D 13/06** (2006.01); **E02D 17/13** (2006.01); **E02F 3/08** (2006.01); **E02F 3/20** (2006.01)

CPC (source: CN EP)

**E02D 13/06** (2013.01 - CN EP); **E02D 17/13** (2013.01 - CN EP); **E02F 3/08** (2013.01 - EP); **E02F 3/205** (2013.01 - CN); **E21B 47/002** (2020.05 - CN EP); **E02F 3/205** (2013.01 - EP)

Cited by

EP4063567A1

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 3819433 A1 20210512**; **EP 3819433 B1 20221228**; CN 113597492 A 20211102; CN 113597492 B 20230926; WO 2021089627 A1 20210514

DOCDB simple family (application)

**EP 19207440 A 20191106**; CN 202080025157 A 20201104; EP 2020080970 W 20201104