

Title (en)

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

Title (de)

SCHLITZWANDFRÄSVORRICHTUNG UND VERFAHREN ZUM FRÄSEN EINES FRÄSSCHLITZES IM BODEN

Title (fr)

DISPOSITIF DE FRAISAGE POUR PAROIS MOULÉES ET PROCÉDÉ DE FRAISAGE D'UNE FENTE FRAISÉE DANS LE SOL

Publication

EP 4053342 B1 20231011 (DE)

Application

EP 21160039 A 20210301

Priority

EP 21160039 A 20210301

Abstract (en)

[origin: WO2022184429A1] The invention relates to a diaphragm-wall-cutting rig comprising a diaphragm-wall cutter which has at least one cutting-frame unit and at least two cutting wheels, arranged in the longitudinal direction of the cutting-frame unit, and which is designed to cut a substantially vertical trench in the ground, also comprising a carrying structure for suspending the diaphragm-wall cutter in a cutting position and for moving in a substantially vertical cutting direction in order to create the trench, and further comprising a feeding arrangement for feeding the diaphragm-wall cutter in a feeding direction, which is directed transversely to the cutting direction. According to the invention, provision is made for the feeding arrangement to be designed to feed the at least one cutting-frame unit with the two cutting wheels in a transversely directed feeding position, wherein the longitudinal direction of the cutting-frame unit is directed parallel to the feeding direction, and for a pivoting arrangement to be provided, this pivoting arrangement making it possible for the cutting-frame unit with the cutting wheels to be pivoted out of the transversely directed feeding position into the substantially vertical cutting position.

IPC 8 full level

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

CPC (source: EP KR US)

E02D 17/13 (2013.01 - EP KR); **E02F 3/205** (2013.01 - EP KR US); **E02F 3/22** (2013.01 - EP KR); **E02F 3/241** (2013.01 - US); **E02F 3/3677** (2013.01 - KR); **E02F 3/46** (2013.01 - EP KR); **E02F 5/02** (2013.01 - US); **E02F 3/3677** (2013.01 - EP US)

Cited by

JP2022536575A

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 4053342 A1 20220907; **EP 4053342 B1 20231011**; **EP 4053342 C0 20231011**; CN 117043411 A 20231110; JP 2024508029 A 20240221; KR 20230130082 A 20230911; US 2024141614 A1 20240502; WO 2022184429 A1 20220909

DOCDB simple family (application)

EP 21160039 A 20210301; CN 202280018550 A 20220216; EP 2022053737 W 20220216; JP 2023553112 A 20220216; KR 20237027259 A 20220216; US 202218548494 A 20220216