

Title (en)

Apparatus with telescopic frame for digging trenches in the ground

Title (de)

Vorrichtung mit teleskopischem Rahmen zum Graben von Tiefgräben im Boden

Title (fr)

Appareil à châssis télescopique pour creuser des tranchées dans le sol

Publication

EP 0811724 A1 19971210 (FR)

Application

EP 97401224 A 19970603

Priority

FR 9606871 A 19960604

Abstract (en)

The vertical trench cutter consists of a frame (1) with two pairs of cutting drums (2) on its lower end which are rotated to loosen the soil. The frame is also equipped with anchors (12) to engage with the trench walls and telescopic thrust units (10) which apply a pressure to the cutting drums in the direction of the frame's lengthwise axis. The trench cutter frame also has positioners (11) to guide it relative to the trench, while the frame itself comprises a tool carrier (1a) which supports the drums and their drive motor, and an anchoring section (1b). During operation the soil loosened by the cutting drums is sucked up by a pump (5) and discharged above the trench level.

Abstract (fr)

L'invention est relative à un appareil pour creuser des tranchées dans le sol du type comportant un châssis (1) à la partie inférieure duquel deux paires de tambours de fraisage (2) sont entraînées en rotation pour désagréger le terrain. Il comporte des moyens d'ancrage (12) dans la tranchée et des moyens télescopiques (10) aptes à prendre appui sur les moyens d'ancrage pour exercer une poussée sur les tambours de fraisage (2).
<IMAGE>

IPC 1-7

E02F 3/20

IPC 8 full level

E02F 5/02 (2006.01); **E02D 17/13** (2006.01); **E02F 3/20** (2006.01); **E02F 5/08** (2006.01)

CPC (source: EP KR)

E02D 17/13 (2013.01 - EP KR); **E02F 3/205** (2013.01 - EP KR); **E02F 3/24** (2013.01 - KR)

Citation (search report)

- [XY] DE 3911624 A1 19901011 - DELMAG MASCHINENFABRIK [DE]
- [YA] US 3214919 A 19651102 - NOBUICHI KUSATAKE
- [A] NL 7004298 A 19710928
- [A] EP 0593355 A1 19940420 - DU SOL COMP [FR]

Cited by

EP3401444A1; CN102677720A; US10822767B2; DE102005059824B3; EP1640509A1; CN114000557A; JP2018526550A; JP2018526551A; JP2018526552A; EP1580327A1; CN100357529C; CN108867735A; EP2251491A1; US7497038B2; US7363733B2; CN103770224A; US2021270000A1; DE202016008570U1; DE202016008567U1; US10724200B2; WO2020012124A1; FR3083819A1; EP4279659A1; WO2023222363A1

Designated contracting state (EPC)

DE FR IT NL

DOCDB simple family (publication)

EP 0811724 A1 19971210; **EP 0811724 B1 20040421**; DE 69728713 D1 20040527; DE 69728713 T2 20050310; FR 2749333 A1 19971205; FR 2749333 B1 19980828; JP 3822948 B2 20060920; JP H1096247 A 19980414; KR 100479241 B1 20050801; KR 980002490 A 19980330

DOCDB simple family (application)

EP 97401224 A 19970603; DE 69728713 T 19970603; FR 9606871 A 19960604; JP 14630197 A 19970604; KR 19970022881 A 19970603