

Title (en)

Method and apparatus for earth working

Title (de)

Verfahren und Vorrichtung zur Bodenbearbeitung

Title (fr)

Procédé et dispositif pour le travail du sol

Publication

EP 1630301 A1 20060301 (DE)

Application

EP 04019187 A 20040812

Priority

EP 04019187 A 20040812

Abstract (en)

The method involves suspending a supporting cable on a soil working device that is lowered from a supporting device and introduced into ground. The soil working device is raised from the ground by a supporting cable that is connected to a holding frame. The soil working device part of the cable is lowered or raised for introducing a tensile force via a holding frame (10) into the ground. An independent claim is also included for an apparatus for working a soil, particularly for performing a soil working method.

IPC 8 full level

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

CPC (source: EP KR US)

E02D 17/13 (2013.01 - EP KR US); **E02F 3/205** (2013.01 - EP KR US); **E02F 5/02** (2013.01 - KR); **E02F 5/30** (2013.01 - KR)

Citation (search report)

- [DA] DE 4119212 A1 19921217 - BAUER SPEZIALTIEFBAU [DE]
- [DA] DE 3905463 A1 19900830 - BAUER SPEZIALTIEFBAU [DE]
- [DA] DE 4141629 A1 19930624 - BAUER SPEZIALTIEFBAU [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 02 29 February 1996 (1996-02-29)

Cited by

EP3272946A1; EP2623677A1; EP2390420A1; FR2960570A1; EP2410093A1; ITTO20100618A1; EP2113632A1; KR101067726B1; US8002051B2; US8864422B2; US8640364B2; US9151011B2; US9212462B2; EP2378002A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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EP 04019187 A 20040812; CA 2513841 A 20050726; CN 200510092428 A 20050812; DE 502004005275 T 20040812; ES 04019187 T 20040812; JP 2005233906 A 20050812; KR 20050073188 A 20050810; RU 2005124848 A 20050804; SG 200504677 A 20050728; US 18972205 A 20050727