

Title (en)

Soil treating device

Title (de)

Bodenbearbeitungsgerät

Title (fr)

Dispositif pour le travail du sol

Publication

EP 1795697 A1 20070613 (DE)

Application

EP 05027009 A 20051209

Priority

EP 05027009 A 20051209

Abstract (en)

The device has a carriage (12) that is movable relative to a base (14) by using a lift cylinder arrangement (20). The arrangement is attached to the carriage and to the base and comprises two lift cylinder devices (30, 40). Each cylinder device has a lift cylinder with a cylinder housing, where the housings are arranged in parallel and connected with one another in a fixed manner. The base has a linear guide, and a support unit (21) lies at the linear guide.

IPC 8 full level

E21B 7/02 (2006.01)

CPC (source: EP US)

E21B 7/20 (2013.01 - EP US); **E21B 19/086** (2013.01 - EP US)

Citation (search report)

- [X] DE 2353106 A1 19740606 - SUBTERRANEAN TOOLS INC
- [X] DE 1922486 A1 19701112 - WEYHAUSEN KG MASCHF H
- [A] US 5181693 A 19930126 - LORENZ GARY V [US]
- [A] DE 4113422 A1 19921029 - KLEMM BOHRTECH [DE]
- [AD] DE 19514288 A1 19961024 - DELMAG MASCHINENFABRIK [DE]
- [AD] DE 2817017 A1 19791115 - CELLER MASCHF GEB
- [AD] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 07 31 July 1997 (1997-07-31)

Cited by

CN105637166A; DE102007043045A1; DE102012100989A1; EP2626506A3; WO2015057130A3

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1795697 A1 20070613; EP 1795697 B1 20090603; AT E433041 T1 20090615; CN 1978862 A 20070613; CN 1978862 B 20110810; DE 502005007432 D1 20090716; PL 1795697 T3 20091030; SG 133511 A1 20070730; US 2008011495 A1 20080117; US 7568530 B2 20090804

DOCDB simple family (application)

EP 05027009 A 20051209; AT 05027009 T 20051209; CN 200610153187 A 20061211; DE 502005007432 T 20051209; PL 05027009 T 20051209; SG 2006085047 A 20061207; US 63579606 A 20061208