

Title (en)  
SOIL WORKING DEVICE

Title (de)  
BODENBEARBEITUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE TRAITEMENT DES SOLS

Publication  
**EP 2166829 A1 20100331 (DE)**

Application  
**EP 08786143 A 20080714**

Priority  

- EP 2008059191 W 20080714
- EP 07112352 A 20070712
- EP 08786143 A 20080714

Abstract (en)  
[origin: EP2014146A1] The device (6) has a piercing tool (1) located in a starting position at a preset piercing angle before piercing. A tool holder (2) is mounted about a pivot axis in a guiding element that is moved up and down by a drive to make pivoting of the tool in relation to the guiding element during engagement with soil (8). An overall centre of gravity of the tool holder and tool is arranged in relation to the axis to partially reduce or compensate or overcompensate moment of inertia of the tool holder and tool so that the moment of inertia forms a part of restoring moment.

IPC 8 full level  
**A01B 45/02** (2006.01)

CPC (source: EP US)  
**A01B 45/023** (2013.01 - EP US)

Citation (search report)  
See references of WO 2009007466A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**EP 2014146 A1 20090114; EP 2014146 B1 20120208; EP 2014146 B2 20160302**; AT E544331 T1 20120215; CA 2693653 A1 20090115; CA 2693653 C 20160823; CN 101801171 A 20100811; CN 101801171 B 20120704; DK 2014146 T3 20120416; DK 2014146 T4 20160613; EP 2166829 A1 20100331; JP 2010532983 A 20101021; JP 5366223 B2 20131211; US 2010288518 A1 20101118; US 8602120 B2 20131210; WO 2009007466 A1 20090115

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**EP 07112352 A 20070712**; AT 07112352 T 20070712; CA 2693653 A 20080714; CN 200880102034 A 20080714; DK 07112352 T 20070712; EP 08786143 A 20080714; EP 2008059191 W 20080714; JP 2010515531 A 20080714; US 45263508 A 20080714