

Title (en)

Soil working tool and method for introducing a working element into the soil

Title (de)

Bodenbearbeitungsgerät und Verfahren zum Einbringen eines Arbeitselementes in den Boden

Title (fr)

Outil de travail du sol et procédé pour introduire un élément de travail dans le sol

Publication

EP 1632637 B1 20071003 (DE)

Application

EP 05016121 A 20050725

Priority

DE 102004042369 A 20040901

Abstract (en)

[origin: EP1632637A1] The implement has a vibration generator with a vibrating piston (42) which is mounted in linearly displaceable manner in a casing so as to be spaced from a working unit (5). The piston is driven in oscillating manner for generating vibrations. The vibrations can be transmitted to the working unit through the casing. The vibrating piston has two piston surfaces, where one surface is subject to an alternating pressure. An independent claim is also included for a method for introducing a working unit into the ground.

IPC 8 full level

E21B 7/24 (2006.01)

CPC (source: EP US)

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Cited by

US7770668B2; US8118118B2; US8118113B2; US8172002B2; US8408328B2

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

DOCDB simple family (publication)

EP 1632637 A1 20060308; EP 1632637 B1 20071003; AT E374878 T1 20071015; DE 102004042369 A1 20060713; DE 502005001606 D1 20071115; ES 2294603 T3 20080401; US 2006042811 A1 20060302; US 7422073 B2 20080909

DOCDB simple family (application)

EP 05016121 A 20050725; AT 05016121 T 20050725; DE 102004042369 A 20040901; DE 502005001606 T 20050725; ES 05016121 T 20050725; US 21480405 A 20050831