

Title (en)
DEVICE FOR THE CUTTING AND MIXING OF SOILS

Title (de)
VORRICHTUNG ZUM FRÄSEN UND MISCHEN VON BÖDEN

Title (fr)
DISPOSITIF DE FRAISAGE ET DE MELANGE DE SOLS

Publication
EP 2265769 A1 20101229 (DE)

Application
EP 09724526 A 20090326

Priority
• EP 2009053606 W 20090326
• DE 102008016673 A 20080326

Abstract (en)
[origin: WO2009118386A1] The device for cutting and mixing of soils can be adapted to standard-equipped hydraulic excavators and facilitates the continuous cutting of sealing and stabilizing slits and mixing of stabilizing additives. The device is designed as a rotating and traversing combination tool. The cutting-mixing unit consists of a cutting drum (1) and a mixing drum (4) mounted on a common shaft in an upright housing (3). The cutting drum, which is equipped with front and peripheral teeth, loosens the soil to be processed. By disposing the cutting and breaking tools (2) at the front and periphery of the cutting drum, the loosened soil moves in the direction of the subsequent mixing drum. The mixing drum comprises a plurality of blades (5) separated by a distance along the peripheral surface arranged such that a flow arises opposite to the feed direction, said flow processing the loosened soil into a flowing mixture comprising the additives and the mixing water, said flowing mixture filling in the resultant slit.

IPC 8 full level
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CPC (source: EP US)
E02D 17/13 (2013.01 - EP US); **E02F 3/205** (2013.01 - EP US)

Citation (search report)
See references of WO 2009118386A1

Citation (examination)
US 5199195 A 19930406 - SCORDILIS FRANK P [US], et al

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 MK MT NL NO PL PT RO SE SI SK TR

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WO 2009118386 A1 20091001; CN 102037190 A 20110427; CN 102037190 B 20131106; DE 102008016673 A1 20091008; DE 102008016673 B4 20140515; EP 2265769 A1 20101229; US 2011089745 A1 20110421; US 8789893 B2 20140729

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