

Title (en)

SYSTEM AND METHOD FOR DETERMINING A MATERIAL ENTITY TO BE REMOVED FROM A PILE AND A CONTROL UNIT FOR A WORKING MACHINE COMPRISING SUCH A SYSTEM

Title (de)

SYSTEM UND VERFAHREN ZUR BESTIMMUNG EINER VON EINEM PFAHL ZU ENTFERNENDEN MATERIALEINHEIT UND STEUEREINHEIT FÜR EINE ARBEITSMASCHINE MIT SOLCH EINEM SYSTEM

Title (fr)

SYSTÈME ET PROCÉDÉ PERMETTANT DE DÉTERMINER UNE ENTITÉ DE MATÉRIAU À ÉLIMINER D'UN PIEU ET UNITÉ DE COMMANDE POUR UN ENGIN DE CHANTIER COMPRENANT UN TEL SYSTÈME

Publication

**EP 3390730 A1 20181024 (EN)**

Application

**EP 15910863 A 20151218**

Priority

SE 2015051372 W 20151218

Abstract (en)

[origin: WO2017105308A1] The present invention relates to a system (18) for determining a material entity (32) to be removed from a pile (16) by means of an implement (12) of a material moving machine (10). The system (18) comprises means for generating a current pile shape (26) of the actual surface shape of the pile (16). Moreover, the system (18) is adapted to determine a nominal pile shape (28) of at least a portion of the pile (16). The nominal pile shape (28) is determined on the basis of at least the current pile shape (26) and information regarding the material type of the pile (16). Further the system (18) is adapted to determine a surplus volume (30) between the nominal pile shape (28) and the current pile shape (26) and the system (18) is adapted to determine the material entity (32) to be removed from the pile (16) on the basis of the surplus volume (30).

IPC 8 full level

**E02F 3/43** (2006.01); **E02F 9/20** (2006.01)

CPC (source: EP US)

**E02F 3/431** (2013.01 - EP US); **E02F 3/435** (2013.01 - EP US); **E02F 9/262** (2013.01 - EP US)

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2017105308 A1 20170622**; CN 108431336 A 20180821; CN 108431336 B 20220201; EP 3390730 A1 20181024; EP 3390730 A4 20190918; EP 3390730 B1 20230607; EP 3390730 C0 20230607; US 2018347154 A1 20181206

DOCDB simple family (application)

**SE 2015051372 W 20151218**; CN 201580085346 A 20151218; EP 15910863 A 20151218; US 201515779866 A 20151218