

Title (en)

Method of compacting soils, application of this method, and device for carrying out the method

Title (de)

Verfahren zur Bodenverdichtung, Anwendung von diesem Verfahren, und Vorrichtung zur Durchführung eines solchen Verfahrens

Title (fr)

Procédé de compactage des sols, applications de ce procédé, et dispositifs pour sa mise en oeuvre

Publication

**EP 2369058 A2 20110928 (FR)**

Application

**EP 11159295 A 20110322**

Priority

FR 1001152 A 20100323

Abstract (en)

The method involves inserting wear blades (107), a pin (108), rods (109) and a soil compacting device into virtual surfaces (104, 105) of soil at predetermined depth, where the compacting device includes a wedge-shaped tool (101) i.e. tooth, that is fixed on a frame (102) using an intermediate part (103) serving as a common support to the tooth. The soil compacting device is moved by holding the soil compacting device at the predetermined depth to continuously compact the soil at depth in which compaction process above the soil is ineffective. An independent claim is also included for a device for compacting soil.

Abstract (fr)

L'invention concerne les procédés qui permettent de compacter les sols, et les dispositifs pour la mise en oeuvre de ces procédés. Elle consiste à insérer dans le sol à une profondeur déterminée (h) sous laquelle le compactage par le niveau supérieur du sol devient inefficace, un dispositif de compactage souterrain. En faisant avancer ce dispositif on peut compacter le sol (104) en dessous de cette profondeur déterminée. Elle permet de compacter des couches plus épaisses et d'améliorer les systèmes de réfection des voies de chemin de fer.

IPC 8 full level

**E01C 21/00** (2006.01); **E01B 27/00** (2006.01); **E02D 3/00** (2006.01); **E02D 3/026** (2006.01); **E02F 5/02** (2006.01); **E02F 5/10** (2006.01); **E02F 9/28** (2006.01)

CPC (source: EP US)

**E01B 27/00** (2013.01 - EP US); **E01C 21/00** (2013.01 - EP US); **E02D 3/026** (2013.01 - EP US); **E02F 5/027** (2013.01 - EP US); **E02F 5/103** (2013.01 - EP US); **E02F 9/2816** (2013.01 - EP US)

Citation (applicant)

FR 2882377 A1 20060825 - FIBAC SA [FR]

Cited by

FR2977901A1; CN116378000A; FR2996566A1; WO2013007946A3

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)

**EP 2369058 A2 20110928**; **EP 2369058 A3 20130320**; **EP 2369058 B1 20150826**; FR 2957947 A1 20110930; FR 2957947 B1 20130322; US 2011236140 A1 20110929; US 9121144 B2 20150901

DOCDB simple family (application)

**EP 11159295 A 20110322**; FR 1001152 A 20100323; US 201113069531 A 20110323