

Title (en)

Method for automating the process of compacting cohesive and non-cohesive compressible material by tamping or vibrating

Title (de)

Verfahren zur Automatisierung des Prozesses der Rütteldruck- und Rüttelstopfverdichtung von bindigem und nichtbindigem Verdichtungsgut

Title (fr)

Méthode pour automatiser le processus de compactage de matériaux compressibles cohérents et non cohérents par damage ou vibration

Publication

EP 2725145 B1 20161012 (DE)

Application

EP 13401116 A 20131023

Priority

DE 102012110194 A 20121025

Abstract (en)

[origin: EP2725145A2] The method involves geo-referencing using global positioning system (GPS) for monitoring water pressure of pore, and monitoring the filling material. A controlled sinking for lance stabilization and sleep rope inspection of excavator/crane (8) is performed by an inclinometer and weight control element. The energy limitation is performed by frequency changer and the control of mixer of compressed air and water is performed. The integration of control and regulation processes for cable-operated excavator or rope crane is performed during automated compression work.

IPC 8 full level

E02D 3/054 (2006.01)

CPC (source: EP)

E02D 3/054 (2013.01)

Citation (opposition)

Opponent : Gulde and Partner

- DE 19628769 C2 19980610 - BUL SACHSEN GMBH [DE]
- DER: "GMB GMBH", LASTENHEFT TECHNISCHE AUSRÜSTUNG ZUR RÜTTELD RUCKVERDICHUNG BIS 65 M, 26 June 2012 (2012-06-26), pages 1-19 - 1-12, XP055386302
- "LASTENHEFT Technische Ausrüstung zur Rütteldruckverdichtung bis 45 m", GMB GMBH, 4 October 2010 (2010-10-04), pages 1 - 20, XP055386716
- "Neuer Kran zur Rütteldruckverdichtung mit Tagebaukippen in Jänschwalde", B4B BERLIN BRANDENBURG, 5 April 2012 (2012-04-05), pages 1 - 2, XP055386718
- HABIL ROLF STEINMETZGER: "Neue Baumaschinen-Generationen mit Einsatz modernster Kommunikationstechnik", VERÖFFENTLICHUNG UNIVERSITÄT WEIMAR, 2002, pages 27 - 39, XP055386719

Cited by

CN114645535A; EP3315668A1; EP3978724A1; WO2022069104A1

Designated contracting state (EPC)

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EP 2725145 A2 20140430; EP 2725145 A3 20150909; EP 2725145 B1 20161012; DE 102012110194 B3 20140626

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