

Title (en)
COMPACTION DEVICE FOR COMPACTING MOULDED BODIES FROM GRANULAR SUBSTANCES AND A METHOD FOR USING SAID DEVICE

Title (de)
VERDICHUNGSEINRICHTUNG ZUR VERDICHUNG VON FORMKÖRPERN AUS KORNFÖRMIGEN STOFFEN UND VERFAHREN ZUR ANWENDUNG DER VERDICHUNGSEINRICHTUNG

Title (fr)
DISPOSITIF DE COMPACTAGE POUR COMPACTER DES CORPS MOULES EN MATERIAUX GRANULEUX ET SON PROCEDE D'UTILISATION

Publication
EP 1332028 A1 20030806 (DE)

Application
EP 01953793 A 20010619

Priority

- DE 0102266 W 20010619
- DE 10056063 A 20001111
- DE 10055904 A 20001112
- DE 10060860 A 20001206
- DE 10106910 A 20010213

Abstract (en)
[origin: WO0238346A1] The invention relates to a compaction device and a method for using the same to carry out compaction operations on moulded bodies that consist of granular substances and are placed on pallets, said compaction being achieved by the impact of a vibrating table on the underside of the pallet. The vibrating table, together with a spring system forms a mass-spring system, which acts as a vibrator capable of oscillation that is excited by an excitation device to produce forced vibrations. The spring system, together with the system mass, is designed to develop at least one individual frequency within the range of the compaction frequency, whereby it is also possible to adjust said individual frequency gradually or continuously. This, together with the fact that the excitation frequency can be adjusted, allows the vibrator to be operated partially or completely in resonance mode over the whole frequency range of the compaction. Electric linear motors are preferably used as the excitation actuators. The compaction system offers advantages in terms of the quality of the transmission of compaction energy and permits extremely high compaction frequencies, coupled with a long service life and a low-energy consumption of the vibrator. Said system is preferably used in machines for concrete blocks.

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