

Title (en)

METHOD OF AND INSTALLATION FOR COMPACTING FOUNDRY MOULD MATERIAL

Publication

EP 0152928 B1 19880120 (DE)

Application

EP 85101687 A 19850215

Priority

DE 3406466 A 19840223

Abstract (en)

[origin: US4617978A] In a process for the compaction of foundry mold making material, more specially foundry sand, using a pressing plate placed directly on the material and accelerated to a speed of up to 20 meters per second, an efficient and even compaction of the material over the full height thereof is made possible by accelerating the pressing plate in an initial phase lasting for up to 50% of the total duration of the compaction stroke progressively up to the maximum speed, then moving it in an ensuing main phase at a more or less constant speed and finally slowing it down degressively in a terminal phase, lasting for up to 30% at the most of the overall stroke time, the driving force being preferably supplied by a captive gas volume under high pressure and opposed by a hydraulic counter force, the effect of said counter force as an opposing load decreasing during the compaction stroke by rapid discharge of a hydraulic liquid.

IPC 1-7

B22C 15/00; **B22C 15/02**; **B22C 15/28**; **B22C 15/30**

IPC 8 full level

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CPC (source: EP US)

B22C 15/00 (2013.01 - EP US); **B22C 15/08** (2013.01 - EP US)

Citation (examination)

"Litejnoe Proizvodstro in Deutsch" Jg. 1973 H3, S. 6-9

Cited by

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EP 0152928 A2 19850828; **EP 0152928 A3 19860604**; **EP 0152928 B1 19880120**; DD 235197 A5 19860430; DE 3406466 A1 19850829; DE 3406466 C2 19890202; DE 3561444 D1 19880225; JP H078411 B2 19950201; JP S60255237 A 19851216; US 4617978 A 19861021

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