

Title (en)

Machine and method for manufacturing sand cores

Title (de)

Maschine und Verfahren zur Herstellung von Sandkernen

Title (fr)

Machine et procédé de fabrication de noyaux de sable

Publication

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Application

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Priority

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Abstract (en)

The present invention relates to a machine and method for manufacturing sand cores, the machine (100) comprising a molding box (1), a blowing chamber (2), a gassing element (3) and a blowing assembly (4) which is suitable for injecting air against the blowing chamber (2) and for suctioning it through a filtration plate. The blowing chamber (2) is filled with sand and is arranged in an unloading position between the blowing assembly (4) and the molding box (1) for unloading the sand into the molding box (1); and the gassing element (3) is subsequently arranged between the blowing assembly (4) and the molding box (1). The machine (100) further comprises cleaning means (6) suitable for cleaning the filtration plate once the blowing chamber (2) has left the unloading position.

IPC 8 full level

B22C 15/24 (2006.01)

CPC (source: EP ES)

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Citation (applicant)

US 2012279674 A1 20121108 - ASAL JURGEN [DE]

Citation (search report)

- [YD] US 2012279674 A1 20121108 - ASAL JURGEN [DE]
- [Y] US 4572273 A 19860225 - KATASHIMA SEIJI [JP]
- [A] EP 0756909 A1 19970205 - LORAMENDI SA [ES]
- [A] DE 4327041 C1 19940630 - HOTTINGER ADOLF MASCH [DE]
- [A] CH 593109 A5 19771130 - HITACHI METALS LTD
- [A] GB 2193916 A 19880224 - ERANA AGUSTIN ARANA
- [A] JP S58163548 A 19830928 - TOYOTA MOTOR CO LTD
- [A] DE 2422407 A1 19741212 - MEC FOND SPA
- [A] US 3059294 A 19621023 - DUNN ROBERT G, et al
- [A] GB 2216446 A 19891011 - ERANA AGUSTIN ARANA
- [A] DE 4322986 C1 19940707 - HOTTINGER ADOLF MASCH [DE]

Cited by

EP3272441A1; EP3581295A1; WO2018015589A1; WO2019238997A1; KR20190046786A; US11192173B2; US10471501B2; US11318528B2

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