

Title (en)

Method and device for producing tight-flask molds

Title (de)

Verfahren und Vorrichtung zur Herstellung von Formen für dichte Behälter

Title (fr)

Procédé et dispositif pour la production de châssis fermés

Publication

EP 1964626 A1 20080903 (EN)

Application

EP 07012211 A 20070621

Priority

JP 2007037239 A 20070217

Abstract (en)

A method and a device for producing tight-flask molds, in as short a cycle as possible, is provided. The method of the invention is a method for producing a tight-flask mold by transferring a flask to a position between a pattern carrier and a sand hopper by a flask conveyor that horizontally transfers flasks at a transfer level. The method includes the steps of keeping the flask in the position at the transfer level, while lowering the sand hopper, squeeze means, and a filling frame to the flask and lifting the pattern carrier and a box-like frame to the frame, thereby defining a mold space by the sand hopper, the squeeze means, the filling frame, the flask, the pattern carrier, and the box-like frame; filling molding sand into the mold space; squeezing the molding sand in the mold space to produce a tight-flask mold; and lifting the sand hopper, the squeeze means, and the filling frame and lowering the pattern carrier and the box-like frame, thereby allowing the tight-flask mold to be ready to be transferred.

IPC 8 full level

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Citation (search report)

- [X] EP 0195864 A2 19861001 - OSBORN MFG CO [US]
- [X] JP 2005334976 A 20051208 - SINTOKOGIO LTD
- [X] JP 2005329469 A 20051202 - SINTOKOGIO LTD
- [X] EP 1738847 A1 20070103 - SINTOKOGIO LTD [JP]
- [A] JP 2005007439 A 20050113 - SINTOKOGIO LTD
- [A] EP 1433548 A1 20040630 - SINTOKOGIO LTD [JP]
- [A] JP 2002346698 A 20021203 - SINTOKOGIO LTD
- [X] EP 1240957 A2 20020918 - SINTOKOGIO LTD [JP]
- [A] EP 1149646 A1 20011031 - SINTOKOGIO LTD [JP] & WO 0132333 A1 20010510 - SINTOKOGIO LTD [JP], et al
- [A] EP 1222979 A1 20020717 - SINTOKOGIO LTD [JP]
- [A] EP 1208928 A1 20020529 - SINTOKOGIO LTD [JP]
- [A] EP 1184106 A1 20020306 - SINTOKOGIO LTD [JP]
- [A] EP 0900606 A1 19990310 - SINTOKOGIO LTD [JP]
- [A] US 4860817 A 19890829 - JOERN ALFRED [CH], et al
- [A] EP 0995521 A1 20000426 - MERTES JOSEF [DE]
- [A] "RECENT TRENDS IN GREENSAND MOULDING MACHINE DESIGN", FOUNDRY TRADE JOURNAL, INSTITUTE OF CAST METALS ENGINEERS, WEST BROMWICH, GB, vol. 166, no. 3453, 1 May 1992 (1992-05-01), pages 254,256,258,26, XP000267328, ISSN: 0015-9042

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