Title (en)

METHOD FOR THE PRODUCTION OF CORE PREFORMS AND RECYCLING CORE SAND FOR FOUNDRY

Title (de)

VERFAHREN ZUR HERSTELLUNG VON KERNFORMLINGEN UND UMLAUFKERNSAND FÜR GIESSEREIZWECKE

Title (fr)

PROCEDE DE PRODUCTION D'EBAUCHES DE NOYAUX ET DE SABLE A NOYAUX DE RECYCLAGE POUR LA FONDERIE

Publication

EP 0917499 A2 19990526 (DE)

Application

EP 97934549 A 19970726

Priority

- DE 19632293 A 19960809
- EP 9704072 W 19970726

Abstract (en)

[origin: DE19632293A1] The invention relates to a method for the production of core preforms for foundry in which a) a mixture of inorganic, refractory foundry sand and a water glass-based inorganic binder is produced, b) the mixture is poured into a tempered core box c) the water contained in the mixture is withdrawn by a physical method and d) the core preform is taken out of the core box. The process is characterized by the fact that e) the tempered core box is subjected to a depression during filling f) the temperature/dwell time is adjusted after the closing of the core box so that a dimensionally stable and good bearing shell is formed on the edge of the preform g) the preform is immediately removed after opening of the core box and, under the effect of microwaves, is subjected to a complete drying.

IPC 1-7

B22C 9/12

IPC 8 full level

B22C 1/18 (2006.01); **B22C 9/12** (2006.01)

CPC (source: EP)

B22C 1/188 (2013.01); **B22C 9/12** (2013.01)

Cited by

EP2163328A1; DE10209183A1; DE10144391C1; DE10144193C1; DE10209224A1; EP2537926A1; WO2010025861A1; US10232430B2; US8627877B2; WO03024642A1

Designated contracting state (EPC)

AT CH DE DK ES FR GB IE IT LI NL SE

DOCDB simple family (publication)

WO 9806522 A2 19980219; **WO 9806522 A3 19980604**; AT E197683 T1 20001215; DE 19632293 A1 19980219; DE 19632293 C2 19990610; DE 59702665 D1 20001228; DK 0917499 T3 20010212; EP 0917499 A2 19990526; EP 0917499 B1 20001122; ES 2153677 T3 20010301; HU 222658 B1 20030929; HU P0001766 A2 20000928; HU P0001766 A3 20001128

DOCDB simple family (application)

EP 9704072 W 19970726; AT 97934549 T 19970726; DE 19632293 A 19960809; DE 59702665 T 19970726; DK 97934549 T 19970726; EP 97934549 A 19970726; ES 97934549 T 19970726; HU P0001766 A 19970726