

Title (en)
PROCESS FOR PRODUCING A LADLE STOPPER

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES PFANNENVERSCHLUSSSTEINES

Title (fr)
PROCEDE DE FABRICATION DE TAMPONS DE POCHE DE COULEE

Publication
EP 0790874 A1 19970827 (DE)

Application
EP 93919011 A 19930915

Priority
DE 9300879 W 19930915

Abstract (en)
[origin: WO9507781A1] In order to obtain a ladle stopper made of refractory concrete having improved qualities of use and a longer service life, a ring (9) made of prefabricated refractory concrete is laid into the casting mould (1) so as to concentrically surround the draining channel (6), the casting mould is then filled with pasty refractory concrete (4), the cast mass is compressed, dried and impregnated under pressure with a carbon carrier. The carbon carrier that impregnates the sealing surface of the ladle stopper is then cracked by a thermal treatment in a reducing atmosphere so as to crack the carbon. If required, one or several negative pressure treatments may be applied during the production process. By laying the prefabricated ring (9) into the mould and realizing the disclosed process steps, the sliding surface of the stopper brick gains remarkable qualities of use, and at the same time the prefabricated ring can compensate increased thermal stresses in the area of the draining channel (6).

IPC 1-7
B22D 41/14; **B22D 41/08**; **C04B 35/66**

IPC 8 full level
C04B 35/66 (2006.01)

CPC (source: EP)
C04B 35/013 (2013.01); **C04B 35/66** (2013.01)

Citation (search report)
See references of WO 9507781A1

Designated contracting state (EPC)
AT BE DE FR IT SE

DOCDB simple family (publication)
WO 9507781 A1 19950323; AU 4944493 A 19950403; EP 0790874 A1 19970827; TW 269650 B 19960201

DOCDB simple family (application)
DE 9300879 W 19930915; AU 4944493 A 19930915; EP 93919011 A 19930915; TW 84102181 A 19950308