

Title (en)

Method for fitting a break ring to mold in horizontal type continuous casting and apparatus therefor.

Title (de)

Verfahren und Vorrichtung zum Einpassen eines Trennrings in einer Honizontalstranggiesskokille.

Title (fr)

Dispositif et procédé pour l'installation d'un anneau de rupture dans une lingotière pour la coulée continue horizontale.

Publication

EP 0293508 A2 19881207 (EN)

Application

EP 87113970 A 19870924

Priority

JP 14099987 A 19870605

Abstract (en)

A method for fitting a break ring (6) between a mold (5) and a feed nozzle (4), the molding being horizontally fitted to the lower part of the side wall of a tundish (1) of a horizontally type continuous casting apparatus through a front nozzle (3) and the feed nozzle, which comprises the steps of: allowing a movement of a break ring in horizontal direction by a thermal expansion in a beginning stage of horizontal continuous casting; and imparting a compressive stress to the outer peripheral portion of said break ring for reducing a tensile stress during casting. The compressed force is added by a pull cylinders connected to the mold through piston rod.

IPC 1-7

B22D 11/04; **B22D 11/14**

IPC 8 full level

B22D 11/04 (2006.01); **B22D 11/045** (2006.01); **B22D 11/047** (2006.01)

CPC (source: EP KR)

B22D 11/04 (2013.01 - KR); **B22D 11/045** (2013.01 - EP); **B22D 11/0475** (2013.01 - EP); **B22D 11/10** (2013.01 - KR)

Cited by

CN100430169C; WO9007997A1

Designated contracting state (EPC)

ES FR GB

DOCDB simple family (publication)

EP 0293508 A2 19881207; **EP 0293508 A3 19890426**; **EP 0293508 B1 19910612**; ES 2022252 B3 19911201; JP H0636962 B2 19940518; JP S63303653 A 19881212; KR 890000186 A 19890313; KR 930001753 B1 19930313

DOCDB simple family (application)

EP 87113970 A 19870924; ES 87113970 T 19870924; JP 14099987 A 19870605; KR 880005356 A 19880509