

Title (en)

SEALING MEANS FOR A NOZZLE IN THE CASTING SPACE OF A CONTINUOUS CASTING MACHINE WITH MOVING BELT

Publication

EP 0237478 B1 19890524 (DE)

Application

EP 87810106 A 19870223

Priority

CH 97286 A 19860310

Abstract (en)

[origin: US4785873A] Prior to reaching the nozzle's exit, the belt is pressed from outward against the nozzle by means of a rail supported by springs whereby the mould is reliably sealed off under all working conditions. Pressing the belt against the nozzle can also be achieved by means of pistons or the direct hydrostatic and/or hydrodynamic effect of the coolant from the outside or through various combined measures. In order to reduce friction and wear, the nozzle in the area of contact with one belt can be provided with a wear-resistant coating or wear-resistant inserts. This sealing method enables a casting process with high metalostatic pressure, consequently resulting in a high quality product.

IPC 1-7

B22D 11/06

IPC 8 full level

B22D 11/06 (2006.01)

CPC (source: EP US)

B22D 11/0645 (2013.01 - EP US)

Cited by

EP0278202A3; DE102011078370A1; WO2013000841A1; WO2011080065A1; DE102010046292A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0237478 A1 19870916; EP 0237478 B1 19890524; AT E43264 T1 19890615; CA 1293848 C 19920107; DE 3760169 D1 19890629; ES 2008705 B3 19890801; GR 3000131 T3 19901129; GR 890300033 T1 19890412; JP 2593470 B2 19970326; JP S62214854 A 19870921; US 4785873 A 19881122

DOCDB simple family (application)

EP 87810106 A 19870223; AT 87810106 T 19870223; CA 530521 A 19870225; DE 3760169 T 19870223; ES 87810106 T 19870223; GR 890300033 T 19890412; GR 890400154 T 19890823; JP 5391487 A 19870309; US 1920487 A 19870226