

Title (en)

STARTER BAR HEAD FOR A STEEL BAND CASTING MACHINE

Publication

EP 0320681 B1 19910417 (DE)

Application

EP 88119732 A 19881126

Priority

DE 3742190 A 19871212

Abstract (en)

[origin: EP0320681A2] An upper cooling and connecting element with mutually spaced projections is attached to a starter bar head for insertion into the mould of a steel band casting machine. To avoid shrinkage cracks in the start of the cast band, the cooling and connecting element (9a, 9b, 9c) is divided by contraction joints (18) between at least two projections (13). The contraction joints are sealed off against the melt. <IMAGE>

IPC 1-7

B22D 11/08

IPC 8 full level

B22D 11/08 (2006.01)

CPC (source: EP)

B22D 11/083 (2013.01)

Cited by

US8151864B2; AT399834B; US5456307A

Designated contracting state (EPC)

AT DE ES FR GB IT

DOCDB simple family (publication)

EP 0320681 A2 19890621; EP 0320681 A3 19890830; EP 0320681 B1 19910417; AT E62617 T1 19910515; DE 3742190 A1 19890622; DE 3862461 D1 19910523; ES 2021816 B3 19911116

DOCDB simple family (application)

EP 88119732 A 19881126; AT 88119732 T 19881126; DE 3742190 A 19871212; DE 3862461 T 19881126; ES 88119732 T 19881126