

Title (en)

METHOD AND DEVICE FOR DRAINING WASTE WATER IN THE INNER BEND OF A BEAM BLANK CASTING MACHINE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM ABLEITEN VON ABLAUFWASSER IM INNENBOGEN EINER BEAM BLANK-GIESSMASCHINE

Title (fr)

PROCEDE ET DISPOSITIF PERMETTANT D'EVACUER L'EAU D'ECOULEMENT RETENUE DANS LA COURBURE INTERIEURE D'UNE MACHINE A COULER DES EBAUCHES DE POUTRELLES

Publication

EP 1423220 B1 20051116 (DE)

Application

EP 02798704 A 20020902

Priority

- DE 10143419 A 20010905
- EP 0209779 W 20020902

Abstract (en)

[origin: US2004255987A1] The invention relates to a method and a device for draining waste water (7) from the inner bend of the strand guide (3) of a beam blank casting machine. In order to drain said waste water from the beam blank in a targeted and controlled manner, a draining device (6) is arranged in the area of the strand guide (4) for the beam blank, said device being provided with jet nozzles (8). Under the effect of jets (13, 14) directed with high energy against the water flow direction, the waste water is lifted on the formation of a banking-up pressure by means of said draining device (6), directed at the lateral edges (11) of the inner bend (4) of the beam blank (10) and collected in a sintered groove (9), arranged thereunder.

IPC 1-7

B22D 11/124

IPC 8 full level

B22D 11/124 (2006.01)

CPC (source: EP KR US)

B22D 11/124 (2013.01 - KR); **B22D 11/1248** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

US 2004255987 A1 20041223; AT E309876 T1 20051215; CN 1267218 C 20060802; CN 1551812 A 20041201; DE 10143419 A1 20030320; DE 50204965 D1 20051222; EP 1423220 A1 20040602; EP 1423220 B1 20051116; JP 2005502474 A 20050127; JP 4325992 B2 20090902; KR 100923269 B1 20091023; KR 20040031058 A 20040409; RU 2004110044 A 20051010; RU 2293623 C2 20070220; UA 77698 C2 20070115; WO 03024647 A1 20030327; WO 03024647 A8 20040226

DOCDB simple family (application)

US 48890304 A 20040405; AT 02798704 T 20020902; CN 02817333 A 20020902; DE 10143419 A 20010905; DE 50204965 T 20020902; EP 0209779 W 20020902; EP 02798704 A 20020902; JP 2003528336 A 20020902; KR 20047003344 A 20020902; RU 2004110044 A 20020902; UA 2004042507 A 20020902