

Title (en)

DEVICE FOR THE HORIZONTAL CONTINUOUS CASTING OF METALS AND ALLOYS, ESPECIALLY OF STEEL

Publication

EP 0083916 B1 19860326 (DE)

Application

EP 82890179 A 19821203

Priority

AT 523581 A 19811207

Abstract (en)

[origin: EP0083916A1] 1. Apparatus for horizontal continuous casting of metals and alloys, in particular steels, comprising a shaping sliding chill mould (4), preferably equipped with a cooling means, and sensors (13, 14, 15), connected to a storage and control device (16, 17), for detecting the amount of heat drawn off from the strand (3) by means of a cooling medium, and a setting device (12) which can be actuated by the storage and control device (16, 17) for controlling the amount of heat drawn off, characterised in that the apparatus comprising a horizontal sliding chill mould (4) connected to a melt container (1) and an optionally oscillating drive mechanism for the strand (3), includes at least one aftercooler (5), which is formed as a plate cooler with displaceable cooling elements (5a, 5b, 5c), through which a cooling medium flows, sensors (13, 14, 15) arranged on the cooling elements, preferably on each cooling element of the aftercooler (5), being connected to the storage and control device (16, 17), for detecting the amount of heat drawn off by the cooling medium, the storage and control device (16, 17) being connected in turn to the setting devices (12) which are associated with the cooling elements (5a, 5b, 5c), preferably with each cooling element, and which can be adjusted by means of the control device (16, 17) to predetermined nominal values for adjusting the position and therefore the contact pressure of the cooling elements (5a, 5b, 5c), or their cooling surfaces (6a, 6b, 6c), on the respective surfaces of the strand (3) and/or for adjusting the speed at which the cooling medium flows through the cooling elements.

IPC 1-7

B22D 11/04; **B22D 11/14**; **B22D 11/16**; **B22D 11/128**

IPC 8 full level

B22D 11/04 (2006.01); **B22D 11/045** (2006.01); **B22D 11/22** (2006.01)

CPC (source: EP)

B22D 11/045 (2013.01)

Cited by

EP0279106A3; CN114406214A; WO0044515A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0083916 A1 19830720; **EP 0083916 B1 19860326**; AT 372891 B 19831125; AT A523581 A 19830415; DE 3270172 D1 19860430; JP H0250822 B2 19901105; JP S58110165 A 19830630

DOCDB simple family (application)

EP 82890179 A 19821203; AT 523581 A 19811207; DE 3270172 T 19821203; JP 21154482 A 19821203