

Title (en)
PROCESS FOR COOLING OF THE CAST PRODUCT IN A CONTINUOUS-CASTING PLANT

Publication
EP 0076743 B1 19850814 (FR)

Application
EP 82401769 A 19820929

Priority
FR 8118587 A 19811002

Abstract (en)
[origin: EP0076743A1] 1. Process for cooling an ingot in a continuous casting plant according to which the ingot is divided into fictitious elements and the water flow-rate to be sprayed on each element is periodically determined as a function of its age and by taking into account the quantity of heat extracted from this element during its dwell time in the mould, characterized by the steps of, in order to determine the quantity of heat extracted from each element during its dwell time in the mould, determining at regular time intervals the total quantity of heat extracted from the mould during this time interval, allocating to each element present in the mould during this time interval a fraction of this total quantity of heat which depends on the distance (l) of the element from the free surface of the metal in the mould and, when a portion emerges from the mould, summing up all the fractions of quantities of heat which have been allocated to this portion during its dwell time in the mould.

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B22D 11/16

IPC 8 full level
B22D 11/22 (2006.01)

CPC (source: EP)
B22D 11/225 (2013.01)

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EP 0036342 A1 19810923 - FIVES CAIL BABCOCK [FR]

Cited by
FR2569361A1; WO2009090000A1

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EP 0076743 A1 19830413; EP 0076743 B1 19850814; DE 3265439 D1 19850919; FR 2513912 A2 19830408; FR 2513912 B2 19840203; JP S58125351 A 19830726; JP S6349589 B2 19881005

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EP 82401769 A 19820929; DE 3265439 T 19820929; FR 8118587 A 19811002; JP 16678982 A 19820927