

Title (en)  
PROCESS FOR CONTROLLING THE COOLING OF AN INGOT IN A CONTINUOUS-CASTING PLANT

Publication  
**EP 0036342 B1 19840215 (FR)**

Application  
**EP 81400212 A 19810211**

Priority  
FR 8005592 A 19800313

Abstract (en)  
[origin: US4463795A] The cooling of a cast steel slab in a continuous casting installation is controlled by dividing the cast product into successive fictitious elements and periodically calculating the water flow values of the cooling water delivered to the successive cooling sections in the secondary cooling zone of the installation as a function of the age of the elements in these sections. The quantity of heat extracted in the mold is taken into account by periodically determining the water flow values in the different zones by means of a computer on the basis of a first curve giving the variations of the quantity of heat extracted from a unitary mass of the cast product as a function of the time while the cast product passes from the point of emergence from the mold to at least the zone of solidification, and a second curve giving the variations of the surface temperature of the cast product during this passage as a function of time. Before each calculation of the water flow values, the first curve is corrected in direct dependence on the quantity of heat extracted from the product in the mold.

IPC 1-7  
**B22D 11/16**

IPC 8 full level  
**B22D 11/22** (2006.01)

CPC (source: EP US)  
**B22D 11/225** (2013.01 - EP US)

Citation (examination)  
• FR 2285947 A1 19760423 - CENTRE RECH METALLURGIQUE [BE]  
• FR 2197676 A1 19740329 - CONCAST AG [CH]  
• FR 2070724 A1 19710917 - SCHLOEMANN AG  
• FR 2370540 A1 19780609 - WILHELM WERNER [DE]

Cited by  
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