

Title (en)
METHOD FOR COOLING A METALLIC CONTINUOUS CASTING PRODUCT

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Abstract (en)
[origin: EP0342082A1] The method according to the invention is characterised in that an intense cooling of the product in the process of being continuously cast is carried out when the latter is, at its core, in the pasty solidification phase (8), as a result of which the differential thermal contraction between the pasty core and the outer shell which is already completely solidified produces a squeezing effect of the core by the shell (9). To this end, means for cooling the product are arranged on the casting machine in the region of the terminal portion of the metallurgical length. <??>The invention makes it possible to reduce, and even prevent the formation of internal cracks during the cooling of the cast product, which would lead to the presence of segregated areas in the axial region. It is applied advantageously to the casting of steels which are well known to be difficult to cast by continuous casting, such as steels with a wide solidification range, the carbon content of which is from 0.25 to 1.5%. <IMAGE>

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