

Title (en)
METHOD FOR PRODUCING A METAL PRODUCT

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES METALLISCHEN PRODUKTS

Title (fr)
PROCÉDÉ DE FABRICATION D'UN PRODUIT MÉTALLIQUE

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EP 3171997 A1 20170531 (DE)

Application
EP 15725362 A 20150601

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Abstract (en)
[origin: WO2016012131A1] The invention relates to a method for producing a metal product, wherein in a strand casting system (1), liquid metal is output as a slab (2) from a mold (3) vertically (V) downward in a conveying direction (F), is guided along a strand guide (4), and is deflected into the horizontal (H), wherein the slab (2) is heated in a furnace (5) or inductively downstream of the stand casting system (1). In order to achieve a microstructure in the material that is as fine and homogeneous as possible, the method provides the following steps: a) in a first cooling zone (6) downstream the mold (3) in the conveying direction (F): intensively cooling the slab (2) in such a way that a microstructure conversion from austenite to ferrite occurs in the surface zone of the slab (2) close to the surface; b) in a first heating zone (7) downstream of the first cooling zone (6) in the conveying direction (F): reheating the slab (2) in such a way that a microstructure conversion from ferrite to austenite occurs in the surface zone of the slab (2) close to the surface; c) in a second cooling zone (8) downstream of the first heating zone (7) in the conveying direction (F): intensively cooling the slab (2) in such a way that a microstructure conversion from austenite to ferrite occurs in the surface zone of the slab (2) close to the surface; d) in a second heating zone (9) downstream of the second cooling zone (8) in the conveying direction (F): reheating the slab (2) in such a way that a microstructure conversion from ferrite to austenite occurs in the surface zone of the slab (2) close to the surface.

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