

Title (en)

Cooling bed for slag and method for cooling slag

Title (de)

Kühlbett für Schlacken und Verfahren zum Kühlen von Schlacken

Title (fr)

Refroidisseur pour scories et procédé de refroidissement de scories

Publication

EP 2270238 B1 20120926 (DE)

Application

EP 10155860 A 20100309

Priority

DE 102009026076 A 20090630

Abstract (en)

[origin: EP2270238A1] The cooling bed useful as an upwardly opened basin (1) for slags, comprises a unit for producing a coolant flow in a longitudinal direction of the cooling bed, where the production unit comprises a gradient in the longitudinal direction of the cooling bed from a slag application point to an end of the cooling bed and the gradient is 3-2[deg] . The unit includes a unit (3) for impacting the slag with the coolant in the area of the slag application point, and a unit (5) for reguiding the coolant from the end of the cooling bed to the impacting unit. The reguiding unit comprises a cleaning unit (6). The cooling bed useful as an upwardly opened basin (1) for slags, comprises a unit for producing a coolant flow in a longitudinal direction of the cooling bed, where the production unit comprises a gradient in the longitudinal direction of the cooling bed from a slag application point to an end of the cooling bed and the gradient is 3-2[deg] . The unit includes a unit (3) for impacting the slag with the coolant in the area of the slag application point, and a unit (5) for reguiding the coolant from the end of the cooling bed to the impacting unit. The reguiding unit comprises a unit (6) for cleaning the coolant and a pump basin, where the cleaning unit comprises a decanter and a mechanical filtering device. The basin consists of concrete, where steel slabs (2) are inserted into the concrete in the area of the slag application point. A metallic or ceramic wear protection is introduced on the steel slabs. A casting bed is arranged upstream to the cooling bed for mixing the fresh slags with cooled slags. An independent claim is included for a method for cooling the slags.

IPC 8 full level

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CPC (source: EP)

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