

Title (en)

COOLANT NOZZLE FOR COOLING A METAL STRAND IN A CONTINUOUS CASTING INSTALLATION

Title (de)

KÜHLMITTELDÜSE ZUM KÜHLEN EINES METALLISCHEN STRANGS IN EINER STRANGGUSSANLAGE

Title (fr)

BUSE DE RÉFRIGÉRANT POUR LE REFROIDISSEMENT D'UNE BARRE MÉTALLIQUE DANS UNE INSTALLATION DE COULÉE CONTINUE

Publication

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Application

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Abstract (en)

[origin: WO2018224304A1] The invention relates to a coolant nozzle for cooling a metal strand in a continuous casting installation. The coolant nozzle (1) for cooling a metallic strand in a continuous casting installation has a mouthpiece (5), which is arranged at a nozzle outlet end (4) and through which liquid coolant (6) can emerge from the coolant nozzle (1). To allow a rapid buildup of pressure at the coolant nozzle (1), it provides a feed (8), which is formed as a tube-in-tube system (9), is arranged upstream of the mouthpiece (5) in the direction of through-flow (7) and has a feed outlet end (10), through the first tube (11) of which control air (13) can be brought up to the feed outlet end (10) and through the second tube (12) of which the liquid coolant (6) can be fed to the mouthpiece (5) by way of the feed outlet end (10), and also provides a control valve (14), which is integrated in the feed (8), is arranged at the feed outlet end (10), can be actuated pneumatically by using the control air (13) and is intended for controlling the feed of the liquid coolant (6) into the mouthpiece (5).

IPC 8 full level

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