

Title (en)
INJECTION NOZZLE ADJUSTMENT DEVICE

Title (de)
SPRITZDÜSEN-VERSTELLEINRICHTUNG

Title (fr)
DISPOSITIF DE RÉGLAGE DE BUSE D'INJECTION

Publication
EP 2598270 A2 20130605 (DE)

Application
EP 11732425 A 20110708

Priority
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• EP 2011061573 W 20110708
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Abstract (en)
[origin: EP2412459A1] The spray nozzle-adjusting device comprises a displacement device comprising a drive body and an actuating piston (5) for shifting the actuating piston relative to the fixed drive body, and a spray nozzle holder (4) for holding the spray nozzle (2). The spray nozzle is formed on the strand for spraying of coolant, and the spray nozzle holder is connected to the actuating piston. A telescopic tube is provided for conducting the coolant from the drive body to the spray nozzle holder so that the spray nozzle is torsionally connected to the drive body. The spray nozzle-adjusting device comprises a displacement device comprising a drive body and an actuating piston (5) for shifting the actuating piston relative to the fixed drive body, and a spray nozzle holder (4) for holding the spray nozzle (2). The spray nozzle is formed on the strand for spraying of coolant, and the spray nozzle holder is connected to the actuating piston. A telescopic tube is provided for conducting the coolant from the drive body to the spray nozzle holder so that the spray nozzle is torsionally connected to the drive body. A longitudinal axis (8) of the actuating piston and the telescopic tubes are parallelly aligned. A first telescopic tube is provided for conducting water, and a second telescopic tube is provided for conducting air. Bellows are connected to the drive body and the spray nozzle holder, where penetration is prevented by dirt. An air supply of the second telescopic tube is assigned to the bellows, which are held under a pressure increasing against an atmosphere. The displacement device comprises a hydraulic, pneumatic or electric linear drive. The hydraulic or pneumatic linear drive is constructed as a pressure medium cylinder (11). The drive body and a fixed part of the telescopic tubes comprise a common housing. The pressure medium cylinders are assigned to a hydraulic or pneumatic flow divider so that a position of spray nozzles is synchronously controlled. The spray nozzle holder and the displacement device are assigned to the spray nozzle, which is independently positionable. A distance measuring device and a control device are assigned to the spray nozzle, which is regularly positionable. An independent claim is included for a strand guide segment for guiding, supporting and cooling of a strand in a strand guide of a continuous casting machine.

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