

Title (en)
METHOD AND APPARATUS FOR COOLING AN OBJECT

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Application
EP 89810325 A 19890501

Priority
CH 191088 A 19880519

Abstract (en)
[origin: EP0343103A1] In the method, a gas/liquid mixture is sprayed in the form of a mist onto the surface of the object to be cooled. A jet of liquid is atomised by the nozzle orifice to form a spray mist with a particle size < 100 μ m and, after its emergence from the nozzle, is acted upon by gas jets at an angle (α) of between 0 and 90 DEG to the nozzle axis (x) for the purpose of acceleration and direction. The intensity of the gas jets can be controlled independently of one another. The method is suitable for cooling conventionally or electromagnetically cast strands and for rolled and pressed products made of metal, especially aluminium. <??>An apparatus suitable for carrying out the method essentially comprises a part (1) which contains the nozzle (3) guiding the liquid and holes (5a, b) for guiding the gas and, to form gas-guiding channels (7a, b), is fitted into a mating part (2). <IMAGE>

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B05B 7/08; B22D 11/124

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CPC (source: EP US)
B05B 7/0861 (2013.01 - EP US); **B22D 11/1246** (2013.01 - EP US); **C21D 1/667** (2013.01 - EP US)

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