Title (en)

NOZZLE FOR COOLING VACUUM FURNACE

Title (de)

DÜSE ZUM KÜHLEN EINES VAKUUMOFENS

Title (fr)

BUSE POUR REFROIDIR UN FOUR À VIDE

Publication

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Application

EP 15836621 A 20150507

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Abstract (en)

A nozzle for cooling a vacuum furnace, comprising: a vacuum heating furnace, nozzles, extended nozzles, thermocouples and a deep cavity die casting mold; the vacuum heating furnace is provided with a plurality of rows of nozzles therein, each row of nozzles are equally distributed in the vacuum heating furnace, which is characterized in that the nozzle is installed with the extended nozzle thereon, a length of the extended nozzle is set as 50-250mm in accordance with a depth of the shape of the deep cavity die casting mold so that a distance between an end surface of the extended nozzle and a cavity surface of the mold is 450-600mm; the vacuum heating furnace is provided with a tray therein, the deep cavity die casting mold is placed on the tray and located at a central position of the vacuum heating furnace, a plurality of thermocouples are placed on the surface of the deep cavity die casting mold. The advantage of the present invention is to obviously improve the cooling speed of the deep cavity die casting mold, of which the surface cooling speed is accelerated, so that the problem of cooling speed of the deep cavity die casting mold recess is solved, which improves the heat processing performance and solves the problem of uneven cooling speed of the deep cavity die casting mold surface.

IPC 8 full level

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CPC (source: EP US)

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