

Title (en)

ROTOR, DEVICE AND METHOD FOR INTRODUCING FLUIDS INTO A MOLTEN BATH

Title (de)

ROTOR, VORRICHTUNG UND EIN VERFAHREN ZUM EINBRINGEN VON FLUIDEN IN EINE METALLSCHMELZE

Title (fr)

ROTOR, PROCEDE ET DISPOSITIF POUR INTRODUIRE DES FLUIDES DANS DU METAL EN FUSION

Publication

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Application

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Abstract (en)

[origin: WO2004029307A1] The invention relates to a rotor, a device, and a method for introducing fluids into a molten bath. Molten baths are often degassed by introducing a liquid. In known trough degassers, rotors are arranged in the flowing melt and are used to introduce the fluid. Said rotors enable the fluid and molten metal to be mixed thoroughly, but damaging eddies can also occur. The aim of the invention is to improve one such trough degasser in such a way that fluids are mixed better with a lower risk of eddy formation. To this end, rotor buttons (30) provided with concave lateral grooves (31) are arranged on the rotors. The trough degasser also comprises rotors and dividing walls such that at least two rotors are arranged between two submerged walls. In the inventive method, the molten metal also flows through a contact chamber comprising at least two rotors. In this way, the aim of the invention is achieved to a surprisingly large extent.

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