

Title (en)

DEVICE AND METHOD FOR LEVITATION MELTING USING INDUCTION UNITS WHICH ARE ARRANGED IN A TILTED MANNER

Title (de)

VORRICHTUNG UND VERFAHREN ZUM SCHWEBESCHMELZEN MIT GEKIPPT ANGEORDNETEN INDUKTIONSEINHEITEN

Title (fr)

DISPOSITIF ET PROCÉDÉ DE FUSION PAR LÉVITATION AU MOYEN D'UNITÉS D'INDUCTION DISPOSÉES DE MANIÈRE INCLINÉE

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Application

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Abstract (en)

[origin: WO2020016063A1] The invention relates to a levitation melting method and to a device for producing cast bodies using induction units which are arranged in a tilted manner. In the method, induction units are used in which the respective opposing ferrite poles are not designed to lie on one plane with the induction coils but rather are tilted at a specified angle relative to the levitation plane. Thus, the efficiency of the induced magnetic field for melting the batches can be increased with the induction units. By virtue of the tilted assembly, the component of the induced magnetic field which effectively accounts for the holding force of the field for levitating the molten metal is increased.

IPC 8 full level

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