

Title (en)

METHOD AND APPARATUS FOR MELTING NON-FERROUS METALS, ESPECIALLY MAGNESIUM

Title (de)

VERFAHREN UND VORRICHTUNG ZUM SCHMELZEN VON NICHT-EISENLEGIERUNGEN, INSBESONDERE MAGNESIUM

Title (fr)

PROCEDE ET APPAREIL DE FUSION DE METAUX NON FERREUX, SPECIALEMENT LE MAGNESIUM

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Application

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Priority

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Abstract (en)

[origin: WO9924194A1] The invention relates to a method and apparatus for melting of non-ferrous metals, especially magnesium. The metal material is charged into a furnace chamber (1) and flows through openings (6; 7) in the intermediate furnace chamber walls (4; 5) via a main melting chamber (2) to an outlet chamber (3), from where it is pumped using a pneumatic pump chamber (9) through its upwards slanting pipe (11) to a separate dosing chamber or dosing furnace (14) and further through a bottom valve (17) to the casting device. The invention aims at improving the dosing accuracy in an economical way. This has been accomplished by pumping the melt through said outlet pipe (11) to said dosing chamber or dosing furnace (14) in such a way that excessive metal flows back to said pump chamber (11) through the same pipe while the correct amount of metal, using a clock-controlled valve (17), flows to the casting device.

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