

Title (en)

METHOD AND DEVICE FOR THE FUSED METAL PRODUCTION OF CONDUCTING ALLOYS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR SCHMELZMETALLURGISCHEN HERSTELLUNG VON LEITFÄHIGEN LEGIERUNGEN

Title (fr)

PROCEDE ET DISPOSITIF DE PRODUCTION D'ALLIAGES CONDUCTEURS PAR METALLURGIE DE FUSION

Publication

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Application

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Abstract (en)

[origin: WO2004112993A1] The invention relates to the field of material technology and concerns a method and device for the fused metal production of conducting alloys, which find application, for example, as materials for high strength permanent magnets. The aim of the invention is disclosure of a method and device whereby the seed formation, proliferation and transformation properties of forming phases and thus the structure of the solidifying alloys can be influenced. Said aim is achieved, by means of a fused metal production of conducting alloys in which the flow within the melt is influenced by an electromagnetically-generated volume force, to give a non-flowing condition and further, by means of a device for the fused metal production of conducting alloys, whereby a secondary coil is arranged above or below the primary coil and both coils comprise a dedicated resonant circuit, by means of which a phase shift may be controlled.

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