

Title (en)
METHOD AND INDUCTION FURNACE FOR MELTING A METALLIC OR METAL-CONTAINING BULK MATERIAL IN THE SHAPE OF SMALL
PIECES

Title (de)
VERFAHREN UND INDUKTIONSOFFEN ZUM SCHMELZEN VON KLEINSTÜCKIGEM METALL- UND/ODER METALLHALTIGEM SCHÜTTGUT

Title (fr)
PROCEDE ET FOUR A INDUCTION POUR FAIRE FONDRE UN PRODUIT EN VRAC EN PETITS MORCEAUX, EN METAL ET/OU A BASE DE
METAL

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Application
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Abstract (en)
[origin: DE19805644A1] The present invention relates to a method as well as to an induction furnace for continuously melting a metallic or metal-containing bulk material in the shape of small pieces. The metallic bulk material is supplied from the top onto the melt located in the vessel of the furnace. An stirring movement is applied to the melt located in the upper area using an alternating field produced by a first magnetic coil (induction coil 11) which is arranged around the furnace vessel. Heat is simultaneously supplied to the melt, used as a short-circuited secondary winding, in the lower region of the induction-furnace crucible (13) about the iron core (16) of a low-frequency transformer.

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