

Title (en)

COLD CRUCIBLE AND ASSOCIATED COOLING MANIFOLD FOR AN INDUCTION HEATING DEVICE

Title (de)

KALTTIEGEL UND ZUGEHÖRIGER KÜHLVERTEILER FÜR EINE INDUKTIONSHEIZVORRICHTUNG

Title (fr)

CREUSET FROID ET COLLECTEUR DE REFROIDISSEMENT ASSOCIE POUR DISPOSITIF DE CHAUFFAGE PAR INDUCTION

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Application

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Abstract (en)

[origin: WO2019137840A1] The present invention relates to a cold crucible for an induction heating device for heating and melting materials such as metals. The crucible comprises a crucible body that is in the general shape of a tube or of a test piece, the peripheral partition of which comprises a plurality of sections in the shape of arcs of a circle separated from each other by an air space. Each section contains a cooling pipe circulating a coolant in order to cool the crucible during operation. The present invention also relates to a cooling manifold, which, during operation, is connected to the crucible body and which allows the coolant to be distributed through the various pipes. The invention also relates to a method for manufacturing the crucible. The field of the invention is particularly that of metallurgy and foundries.

IPC 8 full level

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