

Title (en)

COLD CRUCIBLE WITH INDUCTION HEATING AND HEAT PIPE COOLING

Title (de)

KALTSCHMELZTIEGEL MIT INDUKTIONSERWÄRMUNG UND WÄRMEROHR-KÜHLUNG

Title (fr)

CREUSET FROID A CHAUFFAGE PAR INDUCTION ET REFROIDISSEMENT PAR CALODUCS

Publication

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Application

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Priority

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Abstract (en)

[origin: WO03019984A1] The invention relates to a cold crucible which is cooled in an effective manner by means of a system that does not hinder access to the inside of the crucible or the installation and upkeep of the different elements. The inventive crucible comprises, in particular, sectors (11), each sector consisting of a heat pipe. The upper part (11H) of said sectors extends towards the outside while moving away from the centre of the crucible. Each upper part (11H) is in contact with a coolant circulation system (14E, 14S). Said heat pipes can be used to cool a direct coil crucible. In this way, several crucibles can be stacked on top of one another with only the lower crucible having a base (12). The inventive crucible can be used for the heating and fusion of glass, refractory oxides and various metals.

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