

Title (en)

HEAT EXTRACTING CRUCIBLE FOR RAPID SOLIDIFICATION CASTING OF MOLTEN ALLOYS

Publication

EP 0055827 B1 19850130 (EN)

Application

EP 81109774 A 19811119

Priority

US 22040180 A 19801229

Abstract (en)

[origin: EP0055827A1] An apparatus and method are disclosed for rapid solidification casting of molten high temperature and/or reactive metallic alloys. The apparatus has a heat extraction crucible (2) for containing the alloy in liquid (4) form. A nozzle (6) forms an integral part of the crucible and allows for ejection of a stream of molten metal. The heat extracting crucible and nozzle are protected from the molten alloy by a shell (69) of the alloy which has solidified and prevents reaction between the molten metal and the heat extracting crucible.

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CPC (source: EP)

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Citation (examination)

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- GB 1428691 A 19760317 - MASCHF AUGSBURG NUERNBERG AG
- Technical Report AFMR-TR-78-70 "Amorphous Glassy Metals and Microcrystalline Alloys For Aerospace Applications", pages 13 to 17 by E.W. Collings R.E. Maringerl, C.E. Mobley

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