

Title (en)

Heat extracting crucible for rapid solidification casting of molten alloys.

Title (de)

Wärme abführender Schmelztiegel zum schnellen Erstarrungsvergiessen von Metallegierungen.

Title (fr)

Creuset extracteur de chaleur pour la coulée à solidification rapide d'alliages métalliques.

Publication

**EP 0055827 A1 19820714 (EN)**

Application

**EP 81109774 A 19811119**

Priority

US 22040180 A 19801229

Abstract (en)

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.

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

**B22D 11/005** (2013.01); **B22D 11/0611** (2013.01); **B22D 41/08** (2013.01); **B22F 9/082** (2013.01)

Citation (search report)

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