

Title (en)
Holding device for preforms

Title (de)
Haltevorrichtung für Bolzen

Title (fr)
Dispositif de retenue pour préformes

Publication
EP 0713736 A2 19960529 (DE)

Application
EP 95810678 A 19951030

Priority
CH 351694 A 19941122

Abstract (en)
Holding fixture for inductive heating of billets of metal alloys having thixotropic properties and holding and transporting of the billets until casting is in the form of a bowl with a trough-shaped body and a wall at each end. At least the body is of a high m. pt. metal. Pref. the cross section of the trough is formed by a part circle or part oval with vertical or slightly diverging walls, or the body cross section is tubular, such that the cross section describes a part circle with a central angle of 120 to 210 deg., w.r.t. 360 deg. for the whole tubular cross section. Body and one or both end walls consists of metal from the series of metals contg. Fe and C, pref. steel, stainless steel. 'Thermax' steel, hot-work steel, or metals of the series Ta, Nb, V, W, Ti or their alloys. One or both end walls can consist of or contain a ceramic material pref. Al₂O₃, Al₂O₄, BN, SiC, Si₃N₄, MgO, TiO, ZrO₂, stabilised, partic. yttria-stabilised ZrO₂, glasses or refractory cements.

Abstract (de)
Haltevorrichtung zum induktiven Aufheizen von Bolzen oder Vorformlingen aus Metallegierungen mit thixotropen Eigenschaften und Halten und Transportieren der Bolzen bis zum Vergiessen. Die Haltevorrichtung ist eine Schale (1) und die Schale (1) weist einen Rumpf (2) in Wannenform und an jedem Ende des Rumpfes je eine Stirnwand (3) auf und wenigstens der Rumpf ist aus einem hochschmelzenden Metall, beispielsweise aus Stahl. <IMAGE>

IPC 1-7
B22D 17/00; **F27D 3/12**; **C22C 1/00**

IPC 8 full level
C21D 1/00 (2006.01); **B22D 17/00** (2006.01); **C21D 1/42** (2006.01); **C21D 9/00** (2006.01); **C22C 1/00** (2006.01); **F27D 3/12** (2006.01); **F27D 5/00** (2006.01)

CPC (source: EP US)
B22D 17/007 (2013.01 - EP US); **C21D 9/0025** (2013.01 - EP US); **C22C 1/12** (2023.01 - EP US); **F27D 3/12** (2013.01 - EP US); **F27D 5/00** (2013.01 - EP US)

Citation (applicant)
• DE 2229453 A1 19721228
• DE 3006618 A1 19800904 - ITT IND GMBH DEUTSCHE
• EP 0131175 A2 19850116 - ITT IND GMBH DEUTSCHE [DE], et al
• EP 0513523 A1 19921119 - WEBER SRL [IT]

Cited by
DE19923369A1; EP1110643A1; US5983978A; WO9745218A1; WO0145880A1

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