

Title (en)

Device with a metallic crucible

Title (de)

Einrichtung mit einem Tiegel aus Metall

Title (fr)

Installation comportant un creuset métallique

Publication

EP 0391067 B1 19960911 (DE)

Application

EP 90103959 A 19900301

Priority

DE 3910777 A 19890404

Abstract (en)

[origin: EP0391067A2] The invention relates to a device with a crucible (4), in which there is a metal or metal alloy, a location-dependent inductive power density being supplied to the metal or metal alloy. The crucible (4) is preferably a cooled crucible (4) with slots (12, 13) in the circumference, which is surrounded by a coil (2). The radiation pressure, which is exerted on the metal or metal alloy by the magnetic field of the coil (2), is for example location-dependent in that it corresponds to the hydrostatic pressure of the molten metal or of the molten metal alloy. <IMAGE>

IPC 1-7

F27B 14/06; **F27B 14/10**; **H05B 6/24**

IPC 8 full level

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CPC (source: EP US)

F27B 14/063 (2013.01 - EP US); **F27D 9/00** (2013.01 - EP US); **H05B 6/24** (2013.01 - EP US); **F27B 2014/008** (2013.01 - EP US)

Citation (examination)

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- US 1839802 A 19320105 - FITCH NORTHRUP EDWIN
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- SU 735893 A1 19800525 - UK GI PO PROEKTIROVANIYU METAL [SU], et al

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EP 90103959 A 19900301; DE 3910777 A 19890404; DE 59010486 T 19900301; JP 9006390 A 19900404; US 49894390 A 19900326