Title (en)

Process and device for treating an alloy melt before a casting operation

Title (de)

Verfahren und Vorrichtung zum Aufbereiten einer Schmelze einer Legierung für einen Giessvorgang

Title (fr)

Procédé et dispositif pour préparer un alliage en fusion avant une opération de coulée

Publication

EP 1344589 B1 20080604 (DE)

Application

EP 03003899 A 20030221

Priority

DE 10212349 A 20020313

Abstract (en)

[origin: EP1344589A2] Production of a melt of an alloy for casting comprises: (a) placing the melt having a temperature lying above the liquidus temperature of the alloy in a crystallization vessel (14) heated to a temperature lying below the liquidus temperature; (b) adding an alloy as a powder; and (c) mixing the melt and powder using electrical and/or magnetic forces. An Independent claim is also included for a device for carrying out the process. Preferred Features: The melt is introduced into the crystallization vessel as a beam extending between two electrodes (17, 23) to which an electrical voltage is applied. A magnetic field is formed in the crystallization vessel. The melt is suctioned into the vessel under pressure and with the introduction of a protective gas.

IPC 8 full level

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