

Title (en)

METHOD OF MELTING ALLOY CONTAINING HIGH-VAPOR-PRESSURE METAL

Title (de)

VERFAHREN ZUM SCHMELZEN VON LEGIERUNGEN MIT METALL MIT HOHEM DAMPFDRUCK

Title (fr)

PROCÉDÉ DE FUSION D'UN ALLIAGE CONTENANT UN MÉTAL HAUTE PRESSION DE VAPEUR

Publication

EP 1875978 B1 20190508 (EN)

Application

EP 06728794 A 20060302

Priority

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- JP 2005056985 A 20050302

Abstract (en)

[origin: EP1875978A1] In a method for producing an alloy containing a metal of a low melting point, a low boiling point and a high vapor pressure such as Mg, Ca, Li, Zn, Mn, Sr or the like, a helium containing gas is used as an atmosphere gas for the melting. As a result, the alloy containing the above metal can be produced as an alloy having a targeted chemical composition precisely and safely at a low cost without causing the risk of firing, contamination or the like by active metal fine powder being vaporized. Furthermore, by using the helium containing gas as the atmosphere gas, the quench-solidification of the molten metal can be conducted due to a high thermal conductivity inherent to the helium gas, so that a special alloy can be produced even by the usual melting apparatus.

IPC 8 full level

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CPC (source: EP KR US)

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