

Title (en)

Apparatus and method for magnetically confining molten metal using concentrating fins.

Title (de)

Verfahren und Vorrichtung zur magnetischen Eindämmung von Schmelze unter Verwendung von Konzentrationsrippen.

Title (fr)

Procédé et dispositif de confinement d'un métal liquide par magnétisme avec des ailettes de concentration.

Publication

EP 0616865 A1 19940928 (EN)

Application

EP 93120635 A 19931221

Priority

US 3424093 A 19930322

Abstract (en)

A magnetic confining apparatus (20) prevents the escape of molten metal through the open side of a vertically extending gap (25) between two horizontally separated members (21,22) and in which the molten metal is located. The apparatus includes a current conducting coil (30) for generating a horizontal magnetic field and non-magnetic fins (44) for concentrating the current in the surface of the coil (30) which is closest to the open side of the gap (25). The magnetic field generated by the apparatus extends through the open side of the gap (25) and exerts a confining pressure against the molten metal in the gap. <IMAGE>

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Citation (search report)

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