

Title (en)

PROCESS FOR CONFINING MOLTEN METALS BY APPLYING AN ELECTROMAGNETIC FIELD

Publication

EP 0021889 B1 19830209 (FR)

Application

EP 80400751 A 19800528

Priority

FR 7914011 A 19790531

Abstract (en)

[origin: US4324266A] A device for confining liquid metals comprises a coil which surrounds a jet of liquid metal to be confined and means for causing an alternating current to flow through the coil. These means cause an alternating current to flow through the coil at a frequency which is less than the inverse of the product of the magnetic permeability of the liquid metal, the electrical conductivity of the metal and the square of the radius of the jet of the metal after confinement, in coherent units. The invention applies to the casting of steel, aluminium, copper and alloys thereof.

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Cited by

US4842170A; EP0486830A3; DE19626776B4; EP0636848A1; FR2708725A1; US5563904A; EP0408453A1; FR2649625A1; US5074532A; EP0362530A1; FR2568797A1

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