

Title (en)

Process and device for melting metals, more particularly non-ferrous metals

Title (de)

Verfahren und Vorrichtung zum Schmelzen von Metall insbesondere von Nichteisenmetall

Title (fr)

Procédé et dispositif pour la fonte de métaux, en particulier de métaux non ferreux

Publication

EP 0622597 B1 19980225 (DE)

Application

EP 94105652 A 19940413

Priority

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Abstract (en)

[origin: EP0622597A2] The invention relates to a method for smelting metal and for processing molten metal, particularly non-ferrous metal, the solid metal being fed to a chamber and being carried from one chamber to another through passages which connect the chambers to one another, the metal simultaneously being melted or processed by means of thermal radiation from the tops of the chambers. In this arrangement one or more pumps act on the space above the molten metal in one or more pump chambers which are connected to the pump, each of which chambers is connected in the region of the bottom to a molten chamber by way of passages which carry molten metal to the pump chamber and connected to a spray chamber from where molten metal is fed to a pipe for processing or recycling. The invention is characterised in that approximately three times to fifteen times the quantity and, in the optimum case, six times to ten times the quantity of molten metal per unit time is supplied to the spray chamber by each pump chamber as from the same pump chambers to the spray chamber if the pressure in the pump-chamber space above the molten metal increases or decreases. <IMAGE>

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