

Title (en)

Process and device for manufacturing metallic thixotropic products by continuous casting and electromagnetic stirring.

Title (de)

Verfahren und Vorrichtung zur Herstellung von thixotropen metallischen Produkten mittels Strangguss und elektromagnetischem Rühren.

Title (fr)

Procédé et dispositif de fabrication de produits métalliques thixotropes par coulée continue avec brassage électromagnétique.

Publication

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Application

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Priority

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Abstract (en)

[origin: US5219018A] The invention relates to a continuous casting method for producing thixotropic metallic alloys containing degenerated dendrites. It consists of casting the liquid metal in a movable occluded mould consisting of a hot upstream zone produced from insulating material and a cooled downstream zone in which the metal solidifies, while carrying out by means of a sliding magnetic field, obtained by a series of polyphase inductors, an electromagnetic agitation which causes the dendrites formed in the cold zone to pass into the hot zone where they change to nodules by superficial refusion. This invention is particularly applicable to the production of aluminum plates or bars having thixotropic properties.

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