

Title (en)

Method and apparatus for manufacturing semi-solid metallic slurry

Title (de)

Verfahren und Vorrichtung zur Herstellung breiartiger Metallschmelze

Title (fr)

Procédé et dispositif de production d'un métal en phase pâteuse

Publication

**EP 1445044 A2 20040811 (EN)**

Application

**EP 03252949 A 20030512**

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- KR 20030013517 A 20030304

Abstract (en)

Provided are a method and apparatus for manufacturing a high-quality semi-solid metallic slurry containing fine, uniform spherical particles that can be readily and conveniently applied to a subsequent process, with improvements in energy efficiency and mechanical properties, cost reduction, convenience of casting, and shorter manufacturing time. The semi-solid metallic slurry manufacturing method involves applying an electromagnetic field to a space containing a slurry vessel, loading a molten metal into the slurry vessel in a state where the electromagnetic field is applied to the space, and drawing the slurry vessel out from the space. The semi-solid metallic slurry manufacturing apparatus includes at least one slurry vessel (2), at least one stirring unit (1) which includes a space (13) for the at least one slurry vessel and applies an electromagnetic field to the space, a driving unit (3) which moves the slurry vessel at least up and down to place the slurry vessel in the space, and a loading unit (4) via which a molten metal in liquid state is loaded into the slurry vessel. <IMAGE>

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IPC 8 full level

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CPC (source: EP US)

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