

Title (en)

Apparatus for manufacturing semi-solid metallic slurry

Title (de)

Vorrichtung zur Herstellung thixotroper Metallschmelze

Title (fr)

Dispositif de production d'un métal à l'état d'un mélange liquide-solide

Publication

EP 1498196 A1 20050119 (EN)

Application

EP 03079091 A 20031216

Priority

KR 20030048303 A 20030715

Abstract (en)

Provided is an 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, shorter manufacturing time, and easy discharge. The apparatus includes: at least one sleeve with two open ends, through one of which molten metal in liquid state is loaded into the sleeve; a stirring unit which applies an electromagnetic field to the molten metal in the sleeve; and a shutter unit which closes the other end of the sleeve to form a base of the sleeve and opens the base of the sleeve to discharge a slurry after manufacture from the sleeve. <IMAGE>

IPC 1-7

B22D 1/00; **B22D 7/00**; **B22D 17/00**; **B22D 27/02**; **C22C 1/00**

IPC 8 full level

B22D 1/00 (2006.01); **B22D 7/00** (2006.01); **B22D 17/00** (2006.01); **B22D 17/12** (2006.01); **B22D 17/20** (2006.01); **B22D 17/30** (2006.01); **B22D 27/02** (2006.01); **C22C 1/00** (2006.01)

CPC (source: EP KR US)

B22D 1/00 (2013.01 - EP US); **B22D 7/005** (2013.01 - EP US); **B22D 17/007** (2013.01 - EP US); **B22D 27/02** (2013.01 - EP KR US); **C22C 1/12** (2023.01 - EP US)

Citation (search report)

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DOCDB simple family (application)

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