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(71) Applicant: **Chunpyo Hong**
Seoul (KR)

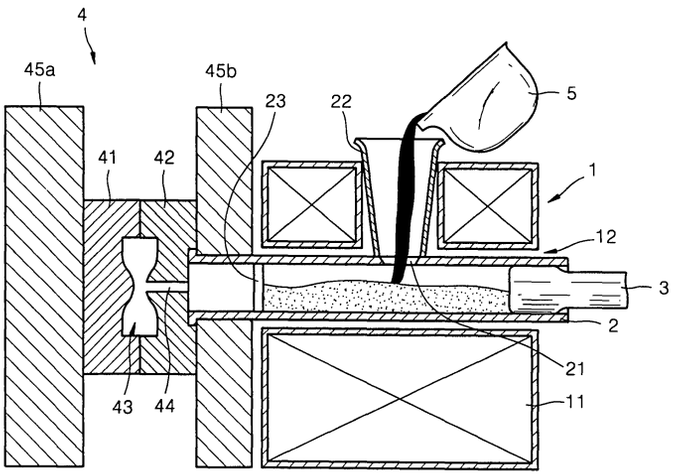
(72) Inventors:
- **Chunpyo, Hong**
  Eunpyung-Gu, Seoul (KR)
- **Jaemin, Jim**
  Ilsan-Gu, Goyang-City, Kyungki-Do (KR)
- **Minsoo, Kim**
  Seoul (KR)
- **Masayuki, Itamura**
  Ube-shi, Yamaguchi-ken (JP)

(74) Representative: **Browne, Robin Forsythe**
Urquhart-Dykes & Lord LLP
Tower North Central
Merrion Way
Leeds LS2 8PA (GB)

(54) Method and apparatus for pressure diecasting a semi-solid metallic slurry

(57) Provided are a die casting method and apparatus for rheocasting that ensure the manufacture of products with a fine, uniform, spherical particle structure, with improvements in energy efficiency and mechanical properties, cost reduction, convenience of casting, and shorter manufacturing time. The die casting method involves applying an electromagnetic field to a slurry manufacturing domain in a sleeve (2) having an end through which a plunger (3) is inserted and the other end connected to a casting die (4) with a mold cavity (43), loading a molten metal into the slurry manufacturing domain to manufacture a semi-solid metallic slurry, and moving the plunger toward the casting die to push the metallic slurry into the mold cavity.

FIG. 2



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EUROPEAN SEARCH REPORT

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The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
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