

Title (en)
Pattern for manufacturing mold.

Title (de)
Modell zur Herstellung von Kokillen.

Title (fr)
Modèle pour fabriquer des coquilles.

Publication
EP 0459486 A2 19911204 (EN)

Application
EP 91108870 A 19910529

Priority

- JP 13832890 A 19900530
- JP 13832990 A 19900530
- JP 14861390 A 19900608

Abstract (en)
A pattern for manufacturing a mold consisting essentially of a flexible thin bag made of a material (1), which is impermeable with regard to the fluid contained therein and the material forming the mold (9), which is resistant to both of the fluid and the material forming the mold, and which has an elastic modulus in tension of 1 to 200 kg/mm<2>, and the fluid contained therein (6), and a process for preparing a mold using the same, a process for preparing a collapsable pattern which comprises cooling to solidify an agglomerate of water-absorbable swellable organic polymer particles containing an aqueous solution into a prescribed form, and a process for preparing a water-soluble pattern which comprises filling a melted blend consisting essentially of 5 to 95 wt. % of urea and 95 to 5 wt. % of a carbamate ester compatible with urea into a mold, and cooling to solidify it. According to the above means, the molds can be formed without broken at a pressure lower than 10 kg/cm<2>, and the working environment problem caused by ammonia gas evolution is not present.

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B22C 7/00; B22C 7/02

IPC 8 full level
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