

Title (en)

PROCESS FOR PRODUCING CAST ITEM

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES GUSSTEILS

Title (fr)

PROCESSE DE PRODUCTION D'UN ARTICLE COULÉ

Publication

**EP 1721689 B1 20110518 (EN)**

Application

**EP 05710586 A 20050223**

Priority

- JP 2005002893 W 20050223
- JP 2004049428 A 20040225

Abstract (en)

[origin: EP1721689A1] A casting process that employs a collapse-prone core is disclosed. The process includes the steps of mixing one or more kind of an aggregate granular material, one or more kind of a water-soluble binder, and water, to form a mixture of the aggregate granular material, and stirring the mixture to cause it to foam. Such a mixture prevents the generation of undesirable gases when molding a mold and pouring molten metal into the mold. The process also includes the steps of charging the foamed mixture into a molding space, evaporating the moisture within the charged mixture to harden the charged mixture to mold a mold with the hardened mixture, assembling at least one mold that is cast in the hardened mixture with the mating mold to form a completed mold, pouring molten metal into the completed mold, removing the completed mold from a cast article that is composed of the solidified molten metal during a process of cooling the cast article after the molten metal is solidified, and applying a heat treatment to the cast article.

IPC 8 full level

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**C22F 1/04** (2006.01); **C22F 1/06** (2006.01)

CPC (source: EP US)

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Cited by

DE102017131255A1; WO2019121637A1; CN111511482A; DE102007042506A1; DE102007042506B4; US11167344B2; WO2016201474A1;  
US11253913B2

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CN 1921969 B 20150318; JP 3948490 B2 20070725; JP WO2005080023 A1 20071025; TW 200533436 A 20051016;  
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DOCDB simple family (application)

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