

Title (en)  
PROCESS FOR PRODUCING CAST ITEM

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES GUSSTEILS

Title (fr)  
PROCESSUS DE PRODUCTION D'UN ARTICLE COULÉ

Publication  
**EP 1721689 A4 20070502 (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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Citation (search report)  
• [X] GB 1361027 A 19740724 - TECH DES IND DE LA FONDERIE WE, et al  
• [Y] CH 470922 A 19690415 - TSNII T I MASH [RU]  
• [Y] US 3826658 A 19740730 - NICHOLAS K  
• [AD] JP H05261478 A 19931012  
• See references of WO 2005080023A1

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

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