

Title (en)

Casting with integrated functional elements and manufacturing process

Title (de)

Gussbauteil mit integrierten Funktionselementen und Verfahren zu seiner Herstellung

Title (fr)

Pièce coulée avec des organes intégrés fonctionnels et procédé de sa préparation

Publication

EP 1645350 B1 20090617 (DE)

Application

EP 05022013 A 20051010

Priority

- DE 102004049353 A 20041008
- DE 102005018936 A 20050422

Abstract (en)

[origin: EP1645350A1] In a process to fabricate a cast metal component with integral functional elements e.g. sensors or temperature-sensitive functional elements, the heat-screened element is pre-positioned within a casting form cavity. The metal is then cast in the conventional way. The position of the form is so chosen that the flow speed of liquid metal is low in the vicinity of the functional element. Also claimed is a suitable cast assembly.

IPC 8 full level

B22D 19/00 (2006.01)

CPC (source: EP)

B22D 19/0081 (2013.01); **B22D 19/04** (2013.01)

Cited by

EP3064293A1; DE102015203797A1; WO2012130417A1; CN112829177A; CN112829178A; US11365935B2; WO2019114892A1

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DOCDB simple family (publication)

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