

Title (en)  
PROCESSING FOR CAST COMPONENTS

Title (de)  
VERARBEITUNG VON GUSSBAUTEILEN

Title (fr)  
TRAITEMENT DE COMPOSANTS COULES

Publication  
**EP 1668165 B1 20090527 (EN)**

Application  
**EP 04781202 A 20040816**

Priority  

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- US 57705504 P 20040604

Abstract (en)  
[origin: WO2005016577A2] Methods and apparatus for cast metallic components with improved fatigue characteristics. Some embodiments include cryogenic processing of the cast material, such as aluminum C355,354, or A354, and alloys such as Inconel 713C, IN713LC, IN-738, IN-100 or GMR235 prior to or after machining of the cast component. Other embodiments include an object cast from an aluminum compound including up to 1 percent scandium, 1 percent lithium, or combinations of the two.

IPC 8 full level  
**C22F 1/043** (2006.01); **B22D 27/04** (2006.01); **C21D 6/04** (2006.01)

IPC 8 main group level  
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CPC (source: EP US)  
**B22D 27/04** (2013.01 - EP US); **C22F 1/02** (2013.01 - EP US); **C22F 1/043** (2013.01 - EP US); **C22F 3/00** (2013.01 - EP US); **F04D 29/023** (2013.01 - EP US); **F04D 29/284** (2013.01 - EP US); **F05D 2230/10** (2013.01 - EP US); **F05D 2230/21** (2013.01 - EP US); **F05D 2230/40** (2013.01 - EP US); **F05D 2230/411** (2013.01 - EP US); **F05D 2300/173** (2013.01 - EP US)

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**WO 2005016577 A2 20050224**; **WO 2005016577 A3 20050526**; AT E432377 T1 20090615; DE 602004021273 D1 20090709; EP 1668165 A2 20060614; EP 1668165 A4 20071226; EP 1668165 B1 20090527; US 2007023112 A1 20070201

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