

Title (en)

METHOD FOR SOLUTION HEAT TREATING WITH PRESSURE

Title (de)

VERFAHREN ZUR LÖSUNGSWÄRMEBEHANDLUNG MIT DRUCK

Title (fr)

PROCÉDÉ DE TRAITEMENT THERMIQUE DE SOLUTION PAR PRESSION

Publication

**EP 3339465 B1 20200115 (EN)**

Application

**EP 17206338 A 20171211**

Priority

US 201615389989 A 20161223

Abstract (en)

[origin: EP3339465A1] A method of heat treating high pressure die cast objects using pressure is disclosed. A high pressure die cast object is obtained and solution heat treated to above 700°F for at least 2 hours at pressures between 0.5 and 35 KSI or at any pressure or range of pressures therebetween. This method of solution heat treatment with pressure reduces and/or eliminates blistered defects on the high pressure die cast object. The method of heat treating by solution heat treatment with pressure also allows an increase of yield strength and corresponding weight reduction upon redesign or substantially larger safety factors for the cast object.

IPC 8 full level

**C22F 1/04** (2006.01)

CPC (source: CN EP)

**C22F 1/02** (2013.01 - CN); **C22F 1/04** (2013.01 - CN EP)

Designated contracting state (EPC)

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**EP 3339465 A1 20180627; EP 3339465 B1 20200115**; CN 108239731 A 20180703; JP 2018103264 A 20180705; JP 7054621 B2 20220414

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**EP 17206338 A 20171211**; CN 201711402870 A 20171222; JP 2017247752 A 20171225