

Title (en)
Integrated metal processing facility

Title (de)
Integrierte Metallverarbeitungsanlage

Title (fr)
Installation de traitement de métal intégrée

Publication
EP 2319945 A3 20111116 (EN)

Application
EP 10197136 A 20050601

Previously filed application
19161 20050601 US

Priority

- EP 05756565 A 20050601
- US 57610704 P 20040602

Abstract (en)
[origin: WO2005121386A2] A system and method for forming and heat treating a metal casting are provided.

IPC 8 full level
B22D 46/00 (2006.01); **C21D 9/00** (2006.01); **C21D 11/00** (2006.01); **C22F 1/00** (2006.01); **F27B 9/02** (2006.01); **F27B 9/20** (2006.01); **F27B 9/40** (2006.01); **F27D 19/00** (2006.01); **F27D 21/00** (2006.01); **C21D 1/84** (2006.01)

CPC (source: EP KR)
B22D 46/00 (2013.01 - KR); **C21D 6/00** (2013.01 - KR); **C21D 9/0068** (2013.01 - EP KR); **C21D 11/00** (2013.01 - EP KR); **C21D 11/005** (2013.01 - EP); **C22F 1/00** (2013.01 - EP KR); **F27B 9/20** (2013.01 - EP); **F27B 9/40** (2013.01 - EP); **F27D 19/00** (2013.01 - EP); **F27D 21/0014** (2013.01 - EP); **C21D 1/84** (2013.01 - EP)

Citation (search report)

- [I] WO 02063051 A2 20020815 - CONS ENG CO INC [US]
- [A] US 5536337 A 19960716 - WEI DANIEL C [US]
- [A] US 2004035546 A1 20040226 - DISERIO EMILE-THOMAS [FR]
- [A] US 4419143 A 19831206 - ITO TADAO [JP], et al
- [A] US 5306359 A 19940426 - EPPELAND JOHN R [US], et al
- [A] LAMPMAN S.R. & ZORC T.B.: "ASM HANDBOOK - HEAT TREATING, VOL.4", 1991, ASM INTERNATIONAL, USA, XP002357244

Cited by
CN105517732A; US9757800B2; WO2014032045A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 2005121386 A2 20051222; WO 2005121386 A3 20060316; CN 101001963 A 20070718; CN 101001963 B 20150819; CN 102000813 A 20110406; CN 102000813 B 20120725; EP 1766100 A2 20070328; EP 1766100 B1 20120808; EP 2319945 A2 20110511; EP 2319945 A3 20111116; EP 2319945 B1 20130313; JP 2008501860 A 20080124; JP 2012040614 A 20120301; JP 2014073531 A 20140424; JP 5575365 B2 20140820; JP 5689403 B2 20150325; KR 20070024675 A 20070302; MX PA06014028 A 20070814

DOCDB simple family (application)
US 2005019161 W 20050601; CN 200580024668 A 20050601; CN 201010500655 A 20050601; EP 05756565 A 20050601; EP 10197136 A 20050601; JP 2007515509 A 20050601; JP 2011256203 A 20111124; JP 2014012679 A 20140127; KR 20067027792 A 20061229; MX PA06014028 A 20050601