

Title (en)  
Integrated metal processing facility

Title (de)  
Integrierte Metallbehandlungsanlage

Title (fr)  
Installation de traitement de métal intégrée

Publication  
**EP 2319945 A2 20110511 (EN)**

Application  
**EP 10197136 A 20050601**

Previously filed application  
19161 20050601 US

Priority

- EP 05756565 A 20050601
- US 57610704 P 20040602

Abstract (en)  
A integrated facility for forming and heat treating a metal casting is provided, the facility comprising: a pouring station for pouring a molten metal into a mold to form a casting; a process temperature control station downstream from said pouring station, said process temperature control station comprising a temperature sensing device in a heat treatment furnace; wherein said the temperature sensing device and said heat source are adapted to maintain the temperature of the casting at or above a process control temperature for the metal of the casting, and wherein upon receipt of a rejection signal from said temperature sensing device, said transfer mechanism removes the casting prior to entry into said furnace.

IPC 8 full level  
**C21D 11/00** (2006.01); **B22D 46/00** (2006.01); **C21D 9/00** (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 (applicant)

- US 5294994 A 19940315 - ROBINSON DENNIS C [US], et al
- US 5565046 A 19961015 - CRAFTON SCOTT P [CH], et al
- US 5738162 A 19980414 - CRAFTON SCOTT P [US]
- US 6217317 B1 20010417 - CRAFTON SCOTT P [US], et al
- US 66535400 A 20000919
- US 5166602 A 20020118

Cited by  
CN105517732A; US9757800B2; WO2014032045A1

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**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

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