

Title (en)

Contactless temperature measuring device for melting furnaces

Title (de)

Vorrichtung zur berührungslosen Messung der Temperatur in einem Schmelzofen

Title (fr)

Dispositif pour la mesure de température sans contact dans un four de fusion

Publication

EP 1647791 B1 20080130 (DE)

Application

EP 05022073 A 20051011

Priority

DE 102004049789 A 20041012

Abstract (en)

[origin: EP1647791A1] A contactless melting oven crucible (2) temperature measurement unit has a pyrometer (5) with sensor (6) using optics aimed at part of the crucible by a sample glass (18) connected to the upper end of a tube extending (22) into the oven melt zone (11).

IPC 8 full level

F27D 21/00 (2006.01); **F27B 14/20** (2006.01)

CPC (source: EP US)

F27B 14/061 (2013.01 - EP US); **F27B 14/20** (2013.01 - EP US); **F27D 19/00** (2013.01 - EP US); **F27D 21/0014** (2013.01 - EP US); **F27D 21/02** (2013.01 - EP US)

Cited by

EP2511640A1; CN109047681A; DE202011003399U1; DE102012202808A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1647791 A1 20060419; **EP 1647791 B1 20080130**; AT E385305 T1 20080215; CA 2523223 A1 20060412; CA 2523223 C 20130129; DE 102004049789 A1 20060413; DE 502005002715 D1 20080320; ES 2297587 T3 20080501; US 2006075784 A1 20060413; US 7461523 B2 20081209

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EP 05022073 A 20051011; AT 05022073 T 20051011; CA 2523223 A 20051011; DE 102004049789 A 20041012; DE 502005002715 T 20051011; ES 05022073 T 20051011; US 24759505 A 20051012