

Title (en)
Cooling element for metallurgical furnaces

Title (de)
Kühlelement für metallurgische Öfen

Title (fr)
Élément de refroidissement pour fours métallurgiques

Publication
EP 2733451 B1 20170201 (DE)

Application
EP 12007725 A 20121115

Priority
EP 12007725 A 20121115

Abstract (en)
[origin: EP2733451A1] A cooling element has a cooling plate, to which fire-resistant refractory components are fixed, and a groove-shaped retainer provided inside furnace facing the hot side of cooling plate. At least one refractory component is partially made of a high-performance non-oxide ceramic material, preferably silicon infiltrated recrystallized silicon nitride.

IPC 8 full level
F27D 1/12 (2006.01); **C21B 7/10** (2006.01); **F27B 1/24** (2006.01); **F27B 3/24** (2006.01); **F27D 1/06** (2006.01); **F27D 9/00** (2006.01)

CPC (source: EP)
C21B 7/10 (2013.01); **F27B 1/24** (2013.01); **F27B 3/24** (2013.01); **F27D 1/0006** (2013.01); **F27D 1/066** (2013.01); **F27D 1/12** (2013.01); **F27D 2009/0032** (2013.01)

Citation (examination)
LU 88629 A1 19951002 - CENTRE RECH METALLURGIQUE [BE]

Cited by
EP3235911A1; EP3417225A4; DE102014220575A1; US10527352B2; DE102016107284A1

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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