

Title (en)
RADIANT HEAT TRANSFER SYSTEM

Title (de)
WÄRMESTRAHLUNGSÜBERTRAGUNGSSYSTEM

Title (fr)
SYSTÈME DE TRANSFERT DE CHALEUR RAYONNANTE

Publication
EP 2069692 A2 20090617 (EN)

Application
EP 07814765 A 20070908

Priority
• US 2007077951 W 20070908
• US 82593906 P 20060918

Abstract (en)
[origin: WO2008036515A2] A radiant heat transfer system has one or more radiant elements inserted in a radiant source. Radiant elements convert the combustion products from burning fuel into radiant energy. A radiant element may be formed from one or more ceramics and may be used in radiant sources, such as radiant tubes, immersion tubes, heat exchanger tubes, boiler walls, and other radiant heat applications. Each radiant element has a core section defining a longitudinal cavity enabling the insertion of a positioning mechanism. Each radiant element may have one or more normal and/or tangential wings attached to the exterior of the core section. Each radiant element may produce a more laminar or less turbulent flow of combustion products within the radiant source.

IPC 8 full level
F24D 13/02 (2006.01); **F23C 3/00** (2006.01); **F24D 5/08** (2006.01); **F24H 3/00** (2006.01)

CPC (source: EP US)
F23C 3/002 (2013.01 - EP US); **F24D 5/08** (2013.01 - EP US); **F23C 2900/03009** (2013.01 - EP US)

Cited by
USD910829S; USD910830S

Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 2008036515 A2 20080327; **WO 2008036515 A3 20081231**; EP 2069692 A2 20090617; EP 2069692 A4 20161130;
EP 2069692 B1 20190109; JP 2010503824 A 20100204; JP 5300725 B2 20130925; US 2009277969 A1 20091112

DOCDB simple family (application)
US 2007077951 W 20070908; EP 07814765 A 20070908; JP 2009529301 A 20070908; US 40137109 A 20090310