

Title (en)  
FURNACE COIL MODIFIED FINS

Title (de)  
MODIFIZIERTE RIPPEN AUF OFENSPULEN

Title (fr)  
AILETTES MODIFIÉES DE SERPENTIN DE FOUR

Publication  
**EP 3465054 B1 20231129 (EN)**

Application  
**EP 17726704 A 20170512**

Priority  
• IB 2017052815 W 20170512  
• CA 2930827 A 20160525

Abstract (en)  
[origin: CA2930827A1] The present invention provides for thick fins on the surface of coils or tubes in a steam cracking furnace. The fins have a thickness at their base from 1/4 to 3/4 of the radius of the furnace tube. The fins have grooves or protuberances on not less than about 10% of a major surface. The fins help increase the radiant heat taken up by the tube from the walls and combustion gases in the furnace.

IPC 8 full level  
**F28F 1/14** (2006.01); **C10G 9/20** (2006.01); **C22C 19/05** (2006.01); **C22C 19/07** (2006.01); **C22C 30/00** (2006.01)

CPC (source: EP KR US)  
**C10G 9/20** (2013.01 - EP KR US); **C22C 19/056** (2013.01 - EP KR US); **C22C 19/058** (2013.01 - EP KR US); **C22C 19/07** (2013.01 - EP KR US); **C22C 30/00** (2013.01 - EP KR US); **F28F 1/025** (2013.01 - KR US); **F28F 1/12** (2013.01 - US); **F28F 1/14** (2013.01 - EP KR); **F28F 1/38** (2013.01 - KR); **F28D 2021/0056** (2013.01 - EP KR US); **F28D 2021/0075** (2013.01 - EP KR US); **F28F 1/14** (2013.01 - US); **F28F 1/38** (2013.01 - US); **F28F 2215/10** (2013.01 - EP KR US)

Designated contracting state (EPC)  
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

DOCDB simple family (publication)  
**CA 2930827 A1 20171125**; BR 112018074206 A2 20190306; EP 3465054 A2 20190410; EP 3465054 B1 20231129; EP 3465054 C0 20231129; ES 2969775 T3 20240522; JP 2019516942 A 20190620; KR 20190010580 A 20190130; MX 2018013866 A 20190321; TW 201743027 A 20171216; US 2017343301 A1 20171130; WO 2017203388 A2 20171130; WO 2017203388 A3 20180524

DOCDB simple family (application)  
**CA 2930827 A 20160525**; BR 112018074206 A 20170512; EP 17726704 A 20170512; ES 17726704 T 20170512; IB 2017052815 W 20170512; JP 2018561672 A 20170512; KR 20187035050 A 20170512; MX 2018013866 A 20170512; TW 106116814 A 20170522; US 201715601295 A 20170522