

Title (en)
ALUMINA FORMING BIMETALLIC TUBE FOR REFINERY PROCESS FURNACES AND METHOD OF MAKING AND USING

Title (de)
AUS ALUMINIUM GEFORMTES BIMETALLISCHES ROHR FÜR RAFFINERIEVERFAHRENSÖFEN SOWIE VERFAHREN ZU IHRER HERSTELLUNG UND VERWENDUNG

Title (fr)
TUBE BIMÉTALLIQUE FORMÉ À PARTIR D'UN ALLIAGE ALUMINOFORMEUR POUR FOURS DE RAFFINERIE ET PROCÉDÉ DE FABRICATION ET D'UTILISATION ASSOCIÉ

Publication
EP 2629903 A1 20130828 (EN)

Application
EP 11834922 A 20111017

Priority
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• US 201113271856 A 20111012
• US 2011056528 W 20111017

Abstract (en)
[origin: WO2012054377A1] Provided is a bimetallic tube for transport of hydrocarbon feedstocks in refinery process furnaces, and more particularly in furnace radiant coils, including: i) an outer tube layer being formed from carbon steels or low chromium steels comprising less than 15.0 wt.% Cr based on the total weight of the steel; ii) an inner tube layer being formed from an alumina forming bulk alloy including 5.0 to 10.0 wt.% of Al, 20.0 wt.% to 25.0 wt.% Cr, less than 0.4 wt.% Si, and at least 35.0 wt.% Fe with the balance being Ni, wherein the inner tube layer is formed plasma powder welding the alumina forming bulk alloy on the inner surface of the outer tube layer; and iii) an oxide layer formed on the surface of the inner tube layer.

IPC 8 full level
B21D 39/00 (2006.01)

CPC (source: EP KR)
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Citation (search report)
See references of WO 2012054377A1

Cited by
US8877342B2; WO2013155367A1

Designated contracting state (EPC)
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