

Title (en)
BOILER WATER WALL PANEL

Title (de)
KESSELWASSERWANDPANEEL

Title (fr)
PANNEAU MURAL AVEC EAU DE CHAUDIÈRE

Publication
EP 2080951 A1 20090722 (EN)

Application
EP 07741879 A 20070418

Priority
• JP 2007058443 W 20070418
• JP 2006300962 A 20061106

Abstract (en)
It is an object to reduce the burden of a welding operation in producing a boiler waterwall panel and to reduce the burden of maintaining a furnace housing using the boiler waterwall panels thereby to improve the operating rate of the boiler. In a boiler waterwall panel 80, a panel body 70 with water passages is constituted by a plurality of metal seamless finned single tubes 60 as constituent units integrally produced by a hot extrusion method, etc., and joined by welding tip ends of fin portions 62. On at least one surface side of the panel body 70, fusion-bonded coating 81 for frame-like edge portions and fusion-bonded coating 82 for inner region, of a corrosion resistant alloy are formed. The finned single tube 60 has a single tubular portion 61 for a cooling water passage and a pair of fin portions 62 extending in the tube axial direction at peripheral opposite sides of the tube, and the external surface of the transition portion 63 is formed into a concave surface having a curvature radius of 3 to 6 mm.

IPC 8 full level
F22B 37/10 (2006.01); **F22B 37/04** (2006.01)

CPC (source: EP KR US)
F22B 37/04 (2013.01 - EP KR US); **F22B 37/10** (2013.01 - KR); **F22B 37/102** (2013.01 - EP US)

Cited by
EP2360356A3; EP2631322A4

Designated contracting state (EPC)
DE FR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 2080951 A1 20090722; **EP 2080951 A4 20091216**; CN 101379345 A 20090304; JP 2008116150 A 20080522; KR 20090101322 A 20090925; TW 200821503 A 20080516; US 2010300379 A1 20101202; WO 2008056456 A1 20080515

DOCDB simple family (application)
EP 07741879 A 20070418; CN 200780000024 A 20070418; JP 2006300962 A 20061106; JP 2007058443 W 20070418; KR 20077016082 A 20070418; TW 96123568 A 20070628; US 44580807 A 20070418