

Title (en)  
BOILER WATER WALL PANEL

Title (de)  
KESSELWASSERWANDPANEEL

Title (fr)  
PANNEAU MURAL AVEC EAU DE CHAUDIÈRE

Publication  
**EP 2080951 A4 20091216 (EN)**

Application  
**EP 07741879 A 20070418**

Priority  
• JP 2007058443 W 20070418  
• JP 2006300962 A 20061106

Abstract (en)  
[origin: EP2080951A1] 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 37/04** (2006.01); **F22B 37/10** (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)

Citation (search report)  
• [Y] DE 4232880 A1 19940331 - SIEMENS AG [DE]  
• [Y] US 3585709 A 19710622 - MULLER WERNER, et al  
• [Y] FR 1372949 A 19640918 - STEINMUELLER GMBH L & C  
• See references of WO 2008056456A1

Cited by  
EP2360356A3; EP2631322A4

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

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