

Title (en)
BOILER STRUCTURE

Title (de)
BOILERSTRUKTUR

Title (fr)
STRUCTURE DE CHAUDIÈRE

Publication
EP 2357407 A4 20160224 (EN)

Application
EP 09818667 A 20090702

Priority
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• JP 2008308469 A 20081203

Abstract (en)
[origin: EP2357407A1] A boiler structure that allows for an appropriate flow-rate distribution of an internal fluid to multiple divided furnace wall surfaces (water-wall) without excessive pressure loss so as to reduce the pressure loss (friction loss) occurring between furnace inlet headers and outlet headers is provided. In a boiler structure having a furnace water-wall (4) formed of multiple boiler evaporation tubes (3) disposed on a wall surface of a furnace and configured to generate steam by heating water inside the furnace when the water pressure-fed to the boiler evaporation tubes (3) flows inside the tubes, the boiler structure includes orifices (22), for an internal fluid, provided in inlet connection tubes (20) that guide the water to inlet headers (21) of furnace walls obtained by dividing the furnace water-wall (4) into multiple parts, and orifices (23) provided in nozzle stubs that guide the water from the inlet headers (21) to the boiler evaporation tubes (3).

IPC 8 full level
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Citation (search report)
• [XY] FR 1549058 A 19681206
• [Y] JP S59129306 A 19840725 - MITSUBISHI HEAVY IND LTD
• [A] US 3192908 A 19650706 - SCHROEDTER WILLBURT W
• [A] GB 1039358 A 19660817 - SIEMENS AG
• [A] US 5806586 A 19980915 - OSTHUES JOSEF [DE], et al
• See references of WO 2010064465A1

Designated contracting state (EPC)
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EP 09818667 A 20090702; CN 200980100827 A 20090702; JP 2008308469 A 20081203; JP 2009062120 W 20090702; KR 20107009045 A 20090702; UA A201005131 A 20090702; US 68268209 A 20090702