

Title (en)
Supercritical Downshot Boiler

Title (de)
Abhitzeessel zur Erzeugung von überkritischem Dampf mit nach unten gerichteten Brennern

Title (fr)
Chaudière supercritique équipée de brûleurs dirigés vers le bas

Publication
EP 1752707 B1 20100825 (EN)

Application
EP 06270029 A 20060303

Priority
US 66040205 P 20050310

Abstract (en)
[origin: US2006213457A1] A downshot boiler for heating water comprising a first combustion chamber; at least one tube for transporting water, each tube being at least partially located at the first combustion chamber, heating means for heating the first combustion chamber, the heating means comprising a downshot burner, wherein the boiler is adapted to heat the water to a supercritical condition. A method of heating water comprising the steps of transporting the water within at least one tube to a first combustion chamber provided in a downshot boiler and heating the first combustion chamber using a downshot burner such that the water within each tube is heated to a supercritical condition.

IPC 8 full level
F22B 21/34 (2006.01); **F01K 7/32** (2006.01); **F22B 3/08** (2006.01); **F22B 29/02** (2006.01); **F22B 29/06** (2006.01)

CPC (source: EP US)
F01K 7/32 (2013.01 - EP US); **F22B 3/08** (2013.01 - EP US); **F22B 21/348** (2013.01 - EP US); **F22B 29/026** (2013.01 - EP US); **F22B 29/067** (2013.01 - EP US); **F22G 3/006** (2013.01 - EP US); **F22G 7/145** (2013.01 - EP US)

Citation (examination)
BASU, KEFA, JESTIN: "BOILERS AND BURNERS", 2000, SPRINGER VERLAG, XP002518465

Cited by
CN103115353A; DE102010038885A1; DE102010038885B4

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2006213457 A1 20060928; AT E479053 T1 20100915; CN 1831426 A 20060913; DE 602006016382 D1 20101007; EP 1752707 A2 20070214; EP 1752707 A3 20070606; EP 1752707 A8 20070509; EP 1752707 B1 20100825; ES 2350946 T3 20110128; PL 1752707 T3 20110228

DOCDB simple family (application)
US 37135806 A 20060308; AT 06270029 T 20060303; CN 200510083567 A 20050711; DE 602006016382 T 20060303; EP 06270029 A 20060303; ES 06270029 T 20060303; PL 06270029 T 20060303