

## Title (en)

Steam unit for generating superheated steam in a waste incineration unit

## Title (de)

Dampferzeuger zur Erzeugung von überhitztem Dampf in einer Abfallverbrennungsanlage

## Title (fr)

Générateur de vapeur pour la production de vapeur surchauffée dans une installation de combustion de déchets

## Publication

**EP 2423584 A3 20131120 (DE)**

## Application

**EP 09014197 A 20091113**

## Priority

DE 102008060918 A 20081206

## Abstract (en)

[origin: US2010139535A1] A steam generator for producing superheated steam in a waste incineration plant, includes a boiler housing having a combustion chamber with walls having an evaporator. The evaporator has tubes carrying water and being acted upon by heat energy released during incineration of waste, for producing superheated steam. A wall superheater for increasing temperature of the superheated steam includes a plurality of tubes in a wall of the boiler housing for carrying superheated steam being protected against flue gas from an incineration process by plate-like elements formed of a corrosion-proof material. The boiler housing includes an evaporator housing section having the water-carrying tubes and a wall-superheater housing section spatially separated from the evaporator housing section and having the superheated steam-carrying tubes. The wall-superheater housing section is movable relative to and disposed downstream of the evaporator housing section in flue gas flow direction.

## IPC 8 full level

**F22B 37/10** (2006.01); **F22G 1/02** (2006.01); **F22G 1/06** (2006.01); **F22G 7/14** (2006.01)

## CPC (source: EP US)

**F22B 37/108** (2013.01 - EP US); **F22G 1/02** (2013.01 - EP US); **F22G 1/06** (2013.01 - EP US); **F22G 3/008** (2013.01 - US); **F22G 7/14** (2013.01 - EP US)

## Citation (search report)

- [Y] DE 10257305 A1 20040617 - KUEMMEL JOACHIM [DE]
- [YD] EP 0981015 A1 20000223 - ASEA BROWN BOVERI [CH]
- [Y] GB 870735 A 19610621 - BABCOCK & WILCOX LTD
- [Y] BE 641471 A 19640416
- [Y] US 4023782 A 19770517 - EIFER GERD
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## Cited by

CN110500575A; US10260740B2

## Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

## Designated extension state (EPC)

AL BA RS

## DOCDB simple family (publication)

**US 2010139535 A1 20100610; US 8863675 B2 20141021**; DE 102008060918 A1 20100610; EP 2423584 A2 20120229; EP 2423584 A3 20131120; EP 2423584 B1 20150218; US 2014261248 A1 20140918

## DOCDB simple family (application)

**US 63201409 A 20091207**; DE 102008060918 A 20081206; EP 09014197 A 20091113; US 201414289787 A 20140529