

Title (en)

Boiler with water tubes and heating installation equipped with such a boiler.

Title (de)

Kessel mit Wasserröhren und Heizungsinstallation mit solchem Kessel.

Title (fr)

Chaudière à tubes d'eau et installation de chauffage équipée d'une telle chaudière.

Publication

**EP 0390656 A1 19901003 (FR)**

Application

**EP 90400800 A 19900323**

Priority

FR 8903980 A 19890328

Abstract (en)

The boiler with water tubes comprises a casing (3), in which are mounted a series of vertical tubes (5) serving as a surface for heating and exchange between the furnace (2) and the water to be heated which circulates in the tubes (5), and two, respectively upper (3a) and lower (3b) collectors, into which the tubes (5) open. The boiler (2b) comprises two independent water circulations, one effected through the upper collector (3a) forming an exchanger/mixer, to which the outward (13) and return (14) pipes of the heating circuits are connected, and the other effected by thermosiphonic action inside the tubes (5) and the upper (3a) and lower (3b) collectors. <IMAGE>

IPC 1-7

**F24H 1/40**; **F24H 9/12**

IPC 8 full level

**F24H 1/40** (2006.01); **F24H 9/12** (2006.01)

CPC (source: EP US)

**F24H 1/40** (2013.01 - EP US); **F24H 9/13** (2022.01 - EP US)

Citation (search report)

- [A] FR 2096022 A5 19720211 - MILLER AVY
- [A] DE 2925980 A1 19810212 - EBARA CORP

Cited by

EP0583525A1; RU2722493C1; RU2767418C1

Designated contracting state (EPC)

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**EP 0390656 A1 19901003**; FR 2645255 A1 19901005; FR 2645255 B1 19910705; US 5060601 A 19911029

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**EP 90400800 A 19900323**; FR 8903980 A 19890328; US 50074890 A 19900328