

Title (en)

Heating water flow circulation and instantaneous hot sanitary water supply apparatus in a combi-boiler

Title (de)

Gerät zur Heizwasserumwälzung und Brauchwasserheizung in einem Kombikessel

Title (fr)

Appareil pour circuler l'eau de chauffage et pour le chauffage instantané de l'eau sanitaire dans une chaudière mixte

Publication

EP 0981031 A3 20020731 (EN)

Application

EP 98124821 A 19981230

Priority

KR 19980033525 A 19980818

Abstract (en)

[origin: EP0981031A2] Disclosed is a heating water flow circulation and hot sanitary water supply apparatus in a combi-boiler which preheats cold water during heating and instantaneously supplies hot water when turning a tap on for use in the kitchen and bath room, etc. The apparatus comprises a water-to-water heat exchanger, in which sanitary water layers and heating flow layers are alternately multilayer-formed to perform heat exchange between heating flow and sanitary water, and a heating flow diverting unit controls the five direction of the heating flow circulation according to a heating mode or a hot sanitary water supply mode. Also, the apparatus rapidly supplies the hot sanitary water by circulating part of the heating flow to the heating flow layers of the water-to-water heat exchanger during the supplied heating flow is circulated for heating. Accordingly, the heating water flow circulation and instantaneous hot water supply apparatus of the present invention can shorten a outflow time of cold water when using hot sanitary water and simplify many components in a boiler including a heating flow bypass valve, which is integrated in a single module. <IMAGE>

IPC 1-7

F24H 1/52; **F24D 3/08**; **F24H 9/14**; **F24H 9/20**

IPC 8 full level

F24H 1/52 (2006.01)

CPC (source: EP)

F24H 1/52 (2013.01); **F24H 9/144** (2013.01)

Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 018, no. 663 (M - 1723) 14 December 1994 (1994-12-14)

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