

Title (en)
HEATING INSTALLATION AND METHOD OF OPERATING IT

Publication
EP 0122475 A3 19860226 (DE)

Application
EP 84102841 A 19840315

Priority
DE 3309741 A 19830318

Abstract (en)
[origin: EP0122475A2] 1. Heating installation with a heating boiler (10, 70) having a water inlet (20) and a hot water outlet ; with at least one hot water circuit which can be connected via a heating flow section (16) and a heating return section (18) to the heating boiler (10), if appropriate by way of a mixing device (14) ; with a buffer reservoir (12) having a hot water inlet (30) which can be connected to the hot water (24) of the heating boiler (10) to form a charging circuit and further having a cold water outlet (32) which can be connected to the water inlet (20) ; with a bypass pipe (36) which branches off from the charging circuit and can be connected to the water inlet (20) of the heating boiler (10), and which branches from a point (35, 38) situated before the hot water inlet (30) of the buffer reservoir (12) or in the hot water portion of the buffer reservoir (12) ; with a charging pump (22) arranged in the charging circuit before the bifurcation (35, 38) or behind the junction (B) of the bypass pipe (36), the heating flow section (16) of the hot water circuit being connectable via a take-off pipe (54) to a hot water outlet (50) of the buffer reservoir (12), while the heating return section (18) is connectable to the water inlet (20) of the heating boiler and/or to a cold water inlet (52) of the buffer reservoir, characterized in that the heating boiler (10, 70) has a combustion chamber (74) which opens on one side towards a front panel (72), said front panel (72) having an opening (76) for a burner pipe (78), pointing into the combustion chamber, of a gas or oil ventilator burner, in that the front panel (72) is water-cooled and bears baffle plates (86) in the form of heat-conducting fins to divert the combustion gases (82) exiting from the combustion chamber (74) into an annular space (88) surrounding the combustion chamber and water-cooled on its outer surface, and in that the annular space (88) opens into a flue gas collector (90) having a water-cooled top-up generator surface (94).

IPC 1-7
F24D 11/00; **F24D 19/10**; **F24H 1/26**

IPC 8 full level
F24D 11/00 (2006.01); **F24D 19/10** (2006.01); **F24H 1/26** (2006.01)

CPC (source: EP US)
F24D 11/002 (2013.01 - EP); **F24D 19/1015** (2013.01 - EP US); **F24H 1/263** (2013.01 - EP)

Citation (search report)
• [A] US 4175698 A 19791127 - BROSENIUS KARL H [SE]
• [A] DE 3145636 A1 19820701 - ZORTEA REMBERT

Cited by
FR2617579A1; CN109405055A; EP0238776A3; DE3809251A1; GB2160957A; EP1553353A1; DE3917930A1

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