

Title (en)
METHOD FOR AUTONOMOUS OPERATION OF RADIATOR AND APPLIANCE MICROBOILER

Title (de)
VERFAHREN ZUM AUTONOMEN BETRIEB EINES KÜHLERS UND MIKROBOILER EINER VORRICHTUNG

Title (fr)
PROCÉDÉ DE FONCTIONNEMENT AUTONOME DE RADIATEUR ET MICRO-CHAUDIÈRE D'APPAREIL

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Application
EP 14711604 A 20140212

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Abstract (en)
[origin: WO2014125310A2] The method for autonomous operation of radiator and the appliance microboiler, independently and without its extraction or disconnection from the heating installation, giving the possibility to operation as single radiator or alternatively with the system that it is installed. The purpose of this invention is to improve the quality of life, to safely provide heating and to save energy consumption. This is achieved by the addition of a microboiler appliance (1) on the radiator, on its lowest part, that is constructed by iron, copper, brass or plastic components with great resistant to temperature or other material that warms the water in the radiator with an electric resistor with thermostat (4) of small power supply from 500 W to 1000 W or even bigger, according to the special needs for bigger spaces and the size of the radiator, or in case of combination of more radiators in small closed or open circuit, or with other type of boiler (12) (solid, liquid or fuel gas) that prompts the water to circulate due to the temperature in the radiator by warming it up, without any mechanical assistance (circulator), thus creating a closed circuit type of operation, while it remains open and connected to the existing network, giving to the radiator the possibility to operation alternatively with the central system if you wish so. The microboiler appliance (1) consists of a tank (2) with a tank nozzle (3) on which an electric resistor with thermostat (4) is adjusted and current (5) is supplied, the combustion chamber (11) with exhaust (13) and boiler (12) where the fuel (14) is supplied. At the bottom of the tank (2) is connected a cold water return pipe (8) and at the top of the tank (2) is connected a hot water outlet pipe (6). The cold water return (8) is connected with the bottom inlet of the radiator and the hot water outlet (6) results and is connected to the top inlet (7) of the radiator with a tee, after we move the tee, on a new position of the radiator's air vent (9).

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Citation (search report)
See references of WO 2014125310A2

Citation (examination)
• EP 1884721 A2 20080206 - DL RADIATORS SPA [IT]
• GB 341559 A 19310122 - ANTON OSCAR BRUNLER

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