

Title (en)
HEATING APPARATUS

Title (de)
HEIZVORRICHTUNG

Title (fr)
APPAREIL DE CHAUFFAGE

Publication
EP 3433543 A1 20190130 (EN)

Application
EP 17719871 A 20170324

Priority
• GB 201605072 A 20160324
• GB 2017050839 W 20170324

Abstract (en)
[origin: GB2548624A] Combined boiler radiator apparatus 11 with flow 6 and return 19 fluid connections for connecting to and retro-fitting an existing central heating radiator 1, a pump 16 for circulating liquid between the connections and a heater 8 for heating the circulating liquid. The apparatus is mountable on a central heating radiator so that it is substantially supported thereon. The heater unit may have first 3 and second 9 supports, the second support having a portion acting as a heat shield against heat generated by the heater. The heater may contain a heating element proving around 600W of power. The apparatus may have a temperature regulator 10 for controlling the temperature of the circulating liquid which may be connected to a room temperature sensor. There may also be a communication unit 13 which could be wireless for sending or receiving data from a remote system or device. The combined boiler radiator device may have a cover visually similar to a convention domestic central heating radiator 14. There may also be a tamper evident seal for fastening the cover or radiator to the device.

IPC 8 full level
F24D 15/02 (2006.01); **F24D 19/10** (2006.01); **F24H 3/00** (2006.01); **F24H 9/02** (2006.01); **F24H 9/12** (2006.01); **F24H 9/20** (2006.01)

CPC (source: EP GB US)
F24D 15/02 (2013.01 - EP); **F24D 19/1066** (2013.01 - EP US); **F24H 3/004** (2013.01 - EP GB); **F24H 9/02** (2013.01 - EP);
F24H 9/06 (2013.01 - GB); **F24H 9/139** (2022.01 - EP); **F24H 15/254** (2022.01 - EP GB US); **F24H 15/281** (2022.01 - EP GB US);
F24H 15/37 (2022.01 - EP GB US); **F24H 15/395** (2022.01 - EP GB US); **F24H 15/45** (2022.01 - EP GB US); **F24D 2200/08** (2013.01 - EP);
F24H 15/25 (2022.01 - EP GB US); **F24H 15/335** (2022.01 - EP GB US)

Citation (search report)
See references of WO 2017163082A1

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
GB 201605072 D0 20160511; GB 2548624 A 20170927; GB 2548624 B 20200916; EP 3433543 A1 20190130; EP 3433543 B1 20210324;
WO 2017163082 A1 20170928

DOCDB simple family (application)
GB 201605072 A 20160324; EP 17719871 A 20170324; GB 2017050839 W 20170324