Title (en)

Combined central-heating and water-heating boiler comprising a heat exchanger with built-in pumps.

Title (de)

Kombinierter Kessel mit Wärmetauscher mit Einbaupumpen.

Title (fr)

Chaudière mixte comprenant un échangeur de chaleur avec des pompes intégrés.

Publication

EP 0509611 B1 19940629 (EN)

Application

EP 92201126 A 19920416

Priority

NL 9100666 A 19910417

Abstract (en)

[origin: EP0509611A1] A combined central-heating and water-heating boiler, in which the boiler body comprises a heat exchanger (1) formed from aluminum or an aluminum alloy, the heat exchanger comprising a flue (15) and a central-heating water section comprising a serpentine or zig-zag central-heating water channel (2), said flue and said water section being separated by a dividing wall, wherein spaced-apart pairs of connections for the suction and delivery sides of two pumps (5,6) are provided in the water section of the heat exchanger, while in each pair of connections the suction (32,42) and delivery (3P,4P) connections of the pumps (5,6) are separated from each other by partitions (3,4). In further elaboration, from the flue gas side of the heat exchanger, the pumps are connected to the water section at the discharge end of the flue gas section, at which discharge end they take the place of heat-absorbing projections. <IMAGE>

IPC 1-7

F24H 1/34; F24H 9/14; F24D 3/08

IPC 8 full level

F24D 3/08 (2006.01); **F24H 1/34** (2006.01); **F24H 9/14** (2006.01)

CPC (source: EP)

F24D 3/08 (2013.01); **F24H 1/34** (2013.01); **F24H 9/14** (2013.01); **F24H 9/146** (2013.01)

Cited by

EP1028298A1; NL1011271C2; DE19512025A1; DE19512025C2

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL PT SE

DOCDB simple family (publication)

EP 0509611 A1 19921021; **EP 0509611 B1 19940629**; AT E108012 T1 19940715; DE 69200214 D1 19940804; DE 69200214 T2 19941006; NL 9100666 A 19921116

DOCDB simple family (application)

EP 92201126 A 19920416; AT 92201126 T 19920416; DE 69200214 T 19920416; NL 9100666 A 19910417