

Title (en)
Heating system component

Title (de)
Bauteil einer Heizungsanlage

Title (fr)
Composant d'un système de chauffage

Publication
EP 1106838 A1 20010613 (EN)

Application
EP 00309946 A 20001109

Priority
• CN 99241050 U 19991210
• CN 99241052 U 19991210
• CN 99241051 U 19991210

Abstract (en)
A component for attachment, in use, to a heating system. The component comprises a first inlet (1) for receiving a heated gas, the inlet comprising a first frusto-conical region (5) followed by an outwardly tapered nozzle (6) for generating a high speed gas jet. There is a second inlet (2) for receiving cooled water from the heating system. A mixing region surrounds the nozzle region and connects to the second inlet. The mixing region comprises a circular chamber component surrounding at least a portion of the gas nozzle, an inwardly tapered frusto-conical component (7) positioned upstream from the outlet of the gas nozzle and leading into a third mixing region (8) of generally regular cross section, the mixing region being configured to mix, in use, heated gas from the nozzle and cooled liquid from the second inlet to produce mixed heated liquid at high pressure and high forward flow velocity. A diffusion region (9) comprises an outwardly tapered frusto-conical tube for reducing the flow of the heated liquid whilst increasing its pressure to a predetermined value. An outlet (3) attached to the diffusion region for receiving and dispersing heated liquid therefrom. <IMAGE>

IPC 1-7
F04F 5/46; F04F 5/24; F24D 1/00

IPC 8 full level
F04F 5/24 (2006.01); **F04F 5/46** (2006.01); **F22D 1/28** (2006.01); **F24D 1/00** (2006.01)

CPC (source: EP)
F04F 5/24 (2013.01); **F04F 5/46** (2013.01); **F22D 1/28** (2013.01); **F24D 1/005** (2013.01)

Citation (search report)
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Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1106838 A1 20010613; DE 1106838 T1 20020613; ES 2168233 T1 20020616

DOCDB simple family (application)
EP 00309946 A 20001109; DE 00309946 T 20001109; ES 00309946 T 20001109