

Title (en)

CONFIGURATION AND METHOD FOR CONTROLLING THE VOLUME OF WATER IN CIRCULATION FROM BOILER CIRCUIT TO HEATING CIRCUIT IN A HOT WATER HEATING SYSTEM.

Title (de)

ANORDNUNG UND VERFAHREN ZUM STEUERN DES WASSERMENGENDURCHLAUFVERHÄLTNISSSES VON KESSELKREISLAUF ZU HEIZKREISLAUF IN WARMWASSERHEIZUNGSANLAGEN.

Title (fr)

DISPOSITIF ET PROCEDE POUR LE REGLAGE DES CONDITIONS D'ECOULEMENT D'UN VOLUME D'EAU D'UN CIRCUIT DE CHAUDIERE VERS UN CIRCUIT DE CHAUFFAGE DANS DES INSTALLATIONS DE CHAUFFAGE A EAU CHAUDE.

Publication

**EP 0483326 B1 19940921**

Application

**EP 91909693 A 19910521**

Priority

- DE 4016221 A 19900519
- EP 9100946 W 19910521

Abstract (en)

[origin: WO9118246A1] The volume of water in circulation is controlled by means of a bell-type mixer (4) which has a stationary section disc (6) and a somewhat sickle-shaped rotary distributor bell (7). The section disc has at least three separate passage openings, the first of which is connected with the boiler feed pipe (KV), the second (12) with the heating pipe (HV) and the third with the boiler return pipe. The distributor bell (7) is acted upon externally by the heating return water pressure and internally houses a communication duct (19). The distributor bell shunts the boiler feed pipe over a limited area of rotation via the second passage opening (12) with the heating pipe and simultaneously frees a variable area of the opening into the second passage for the admixture of return water. In this way optimal regulation is achieved with little structural, maintenance or operational outlay.

IPC 1-7

**F24D 19/10**

IPC 8 full level

**F24D 3/00** (2006.01); **F24D 3/02** (2006.01); **F24D 3/10** (2006.01); **F24D 19/10** (2006.01)

CPC (source: EP US)

**F24D 19/1033** (2013.01 - EP US); **Y10T 137/86517** (2015.04 - EP US)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 9118246 A1 19911128**; AT E112037 T1 19941015; CA 2063824 A1 19911120; CA 2063824 C 19980714; DE 4016221 A1 19911121; DE 59103036 D1 19941027; EP 0483326 A1 19920506; EP 0483326 B1 19940921; JP 2891774 B2 19990517; JP H05500264 A 19930121; US 5248084 A 19930928

DOCDB simple family (application)

**EP 9100946 W 19910521**; AT 91909693 T 19910521; CA 2063824 A 19910521; DE 4016221 A 19900519; DE 59103036 T 19910521; EP 91909693 A 19910521; JP 50918991 A 19910521; US 80783492 A 19920115