

Title (en)

Device for warming heating liquids at low pressure or with closed expansion vessel

Title (de)

Vorrichtung zur Erwärmung von Heizungsflüssigkeiten bei niedrigem Druck oder in geschlossenem Ausdehnungsgefäß

Title (fr)

Dispositif pour chauffer les liquides de chauffage à basse pression ou avec un vase d'expansion fermé

Publication

**EP 0849978 A3 19980902 (EN)**

Application

**EP 97500218 A 19971219**

Priority

ES 9602706 A 19961220

Abstract (en)

[origin: EP0849978A2] The device In a circulation chamber of the fluid to be warmed surrounded on the outside by an inductor circuit that magnetically shorts circuits. The inductive charge is fed by a power stage, and other power components, driven by modular drivers which in turn are controlled by a microprocessor with two specific aims, to generate the square wave at the established frequency, which controls the power stage, by means of the drivers, as well as to control the system's functions of heating. <IMAGE>

IPC 1-7

**H05B 6/02**

IPC 8 full level

**H05B 6/10** (2006.01); **F24D 15/02** (2006.01); **F24H 1/08** (2006.01); **F24H 1/22** (2006.01); **H05B 6/02** (2006.01); **H05B 6/06** (2006.01)

CPC (source: EP KR)

**F24H 1/225** (2013.01 - EP KR); **H05B 6/06** (2013.01 - EP); **H05B 6/108** (2013.01 - EP); **H05B 6/06** (2013.01 - KR); **H05B 6/108** (2013.01 - KR)

Citation (search report)

- [Y] GB 787125 A 19571204 - CARL SCHORG
- [Y] DE 19613021 A1 19960926 - VAILLANT JOH GMBH & CO [DE]
- [A] EP 0075811 A1 19830406 - STAL LAVAL APPARAT AB [SE]

Cited by

CN108506995A; RU2666066C2; WO2015050493A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**EP 0849978 A2 19980624**; **EP 0849978 A3 19980902**; AR 010818 A1 20000712; CN 1131973 C 20031224; CN 1188881 A 19980729; ES 2142214 A1 20000401; ES 2142214 B1 20010416; KR 19980064205 A 19981007; RU 2213433 C2 20030927

DOCDB simple family (application)

**EP 97500218 A 19971219**; AR P970106013 A 19971219; CN 97120808 A 19971220; ES 9602706 A 19961220; KR 19970069455 A 19971217; RU 97122125 A 19971219