

Title (en)

Apparatus to circulate and heat liquid.

Title (de)

Gerät zum Umwälzen und Erhitzen einer Flüssigkeit.

Title (fr)

Appareil pour faire circuler et chauffer du liquide.

Publication

EP 0260242 A2 19880316 (EN)

Application

EP 87850274 A 19870908

Priority

FI 863669 A 19860910

Abstract (en)

Apparatus to circulate and heat liquid, such as water, which apparatus includes an incorporated or separate source of heat (2) and a liquid inlet pipe (10) and a liquid outlet pipe (12), and inside which apparatus is arranged, connected to the outlet pipe (12), a preferably spiral pipe (11) for heating the liquid to its final temperature. In known heating systems, it is not enough to heat the water, also a circulation water pump is needed. With this invention, the need for a circulation water pump is eliminated by that the inlet pipe (10) and the outlet pipe (12) are each equipped with a back-pressure valve (13, 14), and that inside the apparatus, between the inlet pipe (10) and the spiral pipe (11) is installed an element (7) comprising a liquid space (8) with a direct connection to the inlet pipe (10) and the spiral pipe (11) and, connected with said space, a vaporizing space (9) which quickly vaporizes the liquid.

IPC 1-7

F24H 1/06

IPC 8 full level

F24H 1/06 (2006.01)

CPC (source: EP)

F24H 1/06 (2013.01)

Cited by

EP0514922A1; US5282740A; WO2016192683A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 0260242 A2 19880316; EP 0260242 A3 19880824; DK 470487 D0 19870909; FI 863669 A0 19860910; NO 873772 D0 19870909

DOCDB simple family (application)

EP 87850274 A 19870908; DK 470487 A 19870909; FI 863669 A 19860910; NO 873772 A 19870909