

Title (en)
INSTANTANEOUS WATER HEATER

Title (de)
DURCHLAUFERHITZER

Title (fr)
CHAUFFE-EAU INSTANTANE

Publication
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Application
EP 96919519 A 19960611

Priority
• CH 9600222 W 19960611
• CH 173695 A 19950613

Abstract (en)
[origin: WO9641994A1] The instantaneous water heater of the invention consists essentially of an elastic, flexible or rigid, floatingly fitted composite pipe (10) and a heat source (6). When the liquid is heated inside (1) the pipe, undesirable substances, e.g. chalk, can separate out from the liquid and be deposited on the inner walls of the pipe. If, however, the pipe (10) is moved and/or deformed by internal overpressure or external force, the separated substances fall off the inner walls. The composite pipe (10) can, for example, consist of an inner pipe (2), internal insulating layers (3-5), a heating wire (6) and outer insulating layers (7-9).

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F24H 1/162 (2013.01 - EP US); **F24H 9/0042** (2013.01 - EP US); **F28G 5/00** (2013.01 - EP US)

Citation (search report)
See references of WO 9641994A1

Cited by
CN105258339A; CN105180436A; EP2204507A2; EP2204508A2; EP2210987A2; US8458826B2; US9303394B2

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