

Title (en)
WATER HEATER/COOLER

Title (de)
WASSERHEIZER/-KÜHLER

Title (fr)
CHAUFFE-EAU/REFROIDISSEUR D'EAU

Publication
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Application
EP 04722766 A 20040324

Priority

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- AU 2003904887 A 20030908

Abstract (en)
[origin: WO2004085927A1] The present invention discloses a water heater/cooler (10) having a water tank (12) with a wall (18) formed from material having heat transfer properties. A tube (24) which carries a refrigerant fluid is applied externally about tank wall (18). A heat-conductive material (32) is coextensive with the length of tube (24) to allow tube (24) to be in heat-conductive contact with tank wall (24). At least one layer of material (34, 36) is tightly wrapped about tank wall (18) and tube (24).

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Citation (search report)

- [XY] DE 29811953 U1 19980827 - STIEBEL ELTRON GMBH & CO KG [DE]
- [XAY] US 5772113 A 19980630 - GERSTMANN JOSEPH [US], et al
- [YA] DE 3003407 A1 19810806 - SCHABERGER CARLO SONDERMASCH [DE]
- [Y] FR 2549214 A1 19850118 - BOSCH SIEMENS HAUSGERAETE [DE]
- See references of WO 2004085927A1

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