

Title (en)  
Improvements in water heating and space heating apparatus and methods.

Title (de)  
Verfahren und Anordnung für Wassererhitzung und Raumheizung.

Title (fr)  
Méthode et appareil pour chauffer de l'eau et des espaces.

Publication  
**EP 0657700 A1 19950614 (EN)**

Application  
**EP 93309841 A 19931207**

Priority  
EP 93309841 A 19931207

Abstract (en)  
Water heating apparatus includes a heat store in the form of a tank (12) for containing a volume of water, heaters for heating the water in the tank, and a heat exchanger located in an upper portion of the tank having a cold water inlet (28) and a hot water outlet (30) for feeding a hot water supply (32). The heat exchanger (26) and the heaters (16, 14) are arranged to encourage convection currents around the heat exchanger (26). <IMAGE>

IPC 1-7  
**F24D 11/00**

IPC 8 full level  
**F24D 11/00** (2006.01); **F24D 3/08** (2006.01)

CPC (source: EP)  
**F24D 11/002** (2013.01); **F24D 3/08** (2013.01)

Citation (applicant)  

- US 4860907 A 19890829 - SONDAL SVEN [SE]
- US 4487324 A 19841211 - OSTROWSKY EFREM M [US]
- US 4506795 A 19850326 - HERR JAMES E [US]

Citation (search report)  

- [XD] GB 2253268 A 19920902 - HEPBURN GEORGE
- [A] GB 2131526 A 19840620 - WHITE GEOFFREY

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AT13168U1

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**EP 0657700 A1 19950614; EP 0657700 B1 20000419; EP 0657700 B9 20010321**; AT E191968 T1 20000515; DE 69328431 D1 20000525; DE 69328431 T2 20001221; ES 2148209 T3 20001016

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**EP 93309841 A 19931207**; AT 93309841 T 19931207; DE 69328431 T 19931207; ES 93309841 T 19931207