

Title (en)

APPARATUS AND METHOD FOR HEATING WATER

Title (de)

VORRICHTUNG UND VERFAHREN ZUR WASSERERWÄRMUNG

Title (fr)

APPAREIL ET PROCÉDÉ DE CHAUFFAGE D'EAU

Publication

**EP 2603744 A2 20130619 (EN)**

Application

**EP 11749254 A 20110808**

Priority

- US 37174210 P 20100809
- IL 2011000641 W 20110808

Abstract (en)

[origin: WO2012020404A2] It is an object of the subject matter to disclose a water heating device, comprising a vaporizer for vaporizing refrigerant and a compressor for compressing them vaporized refrigerant. The device also comprises a shell; such as a condenser and a volume reducing member positioned within the shell. The member is configured to reduce the cross section area of the volume in which water is heated in the shell. The device may also contain a refrigerant coil positioned adjacent to the volume in which water is heated in the shell; the refrigerant coil contains a refrigerant material received from the compressor, said refrigerant material heats the water in the volume in which water is heated in the shell.

IPC 8 full level

**F24H 4/04** (2006.01); **F24H 9/00** (2006.01)

CPC (source: EP US)

**F24H 4/04** (2013.01 - EP US); **F24H 9/0021** (2013.01 - EP US)

Citation (search report)

See references of WO 2012020404A2

Citation (examination)

- US 4386500 A 19830607 - SIGAFOOSE BOYD [US]
- US 7661460 B1 20100216 - COWANS KENNETH W [US], et al
- US 2915292 A 19591201 - GROSS FRANK R
- US 2471317 A 19490524 - FAUSEK ARTHUR J, et al
- DE 10043169 A1 20010405 - DENSO CORP [JP], et al
- US 4330309 A 19820518 - ROBINSON JR GLEN P
- US 4293323 A 19811006 - COHEN FREDERICK

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2012020404 A2 20120216; WO 2012020404 A3 20121206**; AU 2011288113 A1 20130314; AU 2011288113 B2 20140508; BR 112013003123 A2 20141118; CN 103124880 A 20130529; EP 2603744 A2 20130619; US 2013161404 A1 20130627

DOCDB simple family (application)

**IL 2011000641 W 20110808**; AU 2011288113 A 20110808; BR 112013003123 A 20110808; CN 201180039218 A 20110808; EP 11749254 A 20110808; US 201113814506 A 20110808