

Title (en)
A SYSTEM FOR UTILIZATION OF RENEWABLE ENERGY SOURCES

Title (de)
SYSTEM ZUR VERWENDUNG VON ERNEUERBAREN ENERGIEQUELLEN

Title (fr)
SYSTEME POUR L'UTILISATION DE SOURCES D'ENERGIE RENOUVELABLES

Publication
EP 1866574 A4 20141105 (EN)

Application
EP 06716781 A 20060323

Priority
• NO 2006000112 W 20060323
• NO 20051559 A 20050323

Abstract (en)
[origin: WO2006101405A2] A system for utilization of renewable energy resources and/or recovery of energy, comprising a multifunctional unit, which includes a water heater (1), and a heat pump (2). The heat pump is adapted to transfer heat and/or provide cooling to water in the water heater (1). The unit (1) comprises at least two thermally insulated tanks (3, 4) for thermal storage of hot water and/or cold water and/or ice. The tanks are also insulated from one another. The first tank (3) is in heat exchange with a superheat circuit in the heat pump for heating water in the tank (3) to a first and high temperature level. The second tank (4) is in heat exchange with a second circuit in the heat pump which is adapted to heat water in the second tank (4) to a second temperature level, which is lower than the first temperature level, or to cool down or freeze water in the second tank (4).

IPC 8 full level
F24D 3/08 (2006.01); **F24D 11/02** (2006.01); **F25B 29/00** (2006.01); **F25B 30/06** (2006.01); **F25B 40/04** (2006.01); **F28D 20/00** (2006.01); **F28D 20/02** (2006.01)

IPC 8 main group level
F25B (2006.01)

CPC (source: EP)
F24D 11/025 (2013.01); **F25B 29/003** (2013.01); **F25B 30/06** (2013.01); **F24D 3/08** (2013.01); **F24D 2200/08** (2013.01); **F24D 2200/11** (2013.01); **F24D 2200/12** (2013.01); **F24D 2200/20** (2013.01); **F25B 2400/24** (2013.01); **F28D 20/0034** (2013.01); **F28D 20/0039** (2013.01); **F28D 20/021** (2013.01); **F28D 2020/0082** (2013.01); **Y02B 10/40** (2013.01); **Y02B 10/70** (2013.01); **Y02B 30/52** (2013.01)

Citation (search report)
• [XY] US 4364239 A 19821221 - CHAPELLE JULES A, et al
• [Y] EP 0240441 A2 19871007 - PHENIX HEAT PUMP SYSTEMS INC [US]
• [Y] DE 2407047 A1 19750828 - WICK HARTMUT
• See references of WO 2006101405A2

Cited by
CN111023230A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006101405 A2 20060928; **WO 2006101405 A3 20061221**; EP 1866574 A2 20071219; EP 1866574 A4 20141105;
NO 20051559 D0 20050323; NO 20051559 L 20060925; NO 326274 B1 20081027

DOCDB simple family (application)
NO 2006000112 W 20060323; EP 06716781 A 20060323; NO 20051559 A 20050323