

Title (en)  
THERMAL ENERGY BALANCING DEVICE

Title (de)  
VORRICHTUNG ZUM AUSGLEICHEN THERMISCHER ENERGIE

Title (fr)  
DISPOSITIF D'ÉQUILIBRAGE D'ÉNERGIE THERMIQUE

Publication  
**EP 4008969 A1 20220608 (EN)**

Application  
**EP 20211790 A 20201204**

Priority  
EP 20211790 A 20201204

Abstract (en)  
A thermal energy balancing device is provided which is connected to a thermal energy circuit (100) comprising a hot conduit (120) configured to allow heat transfer liquid of a first temperature to flow therethrough, and a cold conduit (140) configured to allow heat transfer liquid of a second temperature to flow therethrough. The second temperature is lower than the first temperature. The thermal energy balancing device comprises: a liquid-to-air heat exchanger (600) comprising a liquid phase primary side (610) and a gas phase secondary side (620); and a valve arrangement (500) configured to selectively set the thermal energy balancing device into a heat exhale mode and into a heat inhale mode.

IPC 8 full level  
**F24D 10/00** (2022.01)

CPC (source: EP)  
**F24D 10/00** (2013.01); **F24D 2220/0228** (2013.01); **F24D 2220/0271** (2013.01); **F24D 2220/046** (2013.01); **F24D 2220/06** (2013.01)

Citation (search report)

- [XY] EP 2837895 A2 20150218 - DEC DESIGN MECHANICAL CONSULTANTS LTD [CA]
- [X] EP 3184914 A1 20170628 - E ON SVERIGE AB [SE]
- [Y] WO 2014137968 A2 20140912 - JOHNSON CONTROLS TECH CO [US]
- [A] EP 3165831 A1 20170510 - E ON SVERIGE AB [SE]

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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