

Title (en)
A BUILDING VENTILATION AIR-TO-AIR HEAT EXCHANGER CONTROL

Title (de)
STEUERUNG EINES LUFT/LUFT-WÄRMETAUSCHERS EINES GEBÄUDELÜFTUNGSSYSTEMS

Title (fr)
COMMANDE D'ÉCHANGEUR DE CHALEUR AIR-AIR POUR L'AÉRATION DE BÂTIMENTS

Publication
EP 2406553 A4 20180411 (EN)

Application
EP 10750385 A 20100310

Priority
• DK 2010000028 W 20100310
• DK PA200900330 A 20090310

Abstract (en)
[origin: WO2010102627A1] In heat exchangers for buildings certain atmospheric conditions cause condensation and freezing of the humidity in the exhaust air, thereby preventing heat exchanging action. Prior art remedies are to switch off or to supply heat from a heat source. Such solutions are not energy- efficient. Other remedies feed back a portion of the outside air that has just passed through the heat exchanger into the cold outside air at a feeding point upstream of the heat exchanger. According to the invention, the beginning of condensation and ice build-up is determined by a change in the pressure drop across the heat exchanger, said change opening a damper to permit a part of the heated outside air to return to the input end of the heat exchanger.

IPC 8 full level
F24F 12/00 (2006.01); **F24F 13/22** (2006.01); **F28F 19/00** (2006.01)

CPC (source: EP)
F24F 12/006 (2013.01); **F24F 13/22** (2013.01); **F28F 19/006** (2013.01); **F24F 11/41** (2017.12); **F24F 2012/007** (2013.01); **Y02B 30/56** (2013.01)

Citation (search report)
• No further relevant documents disclosed
• See references of WO 2010102627A1

Designated contracting state (EPC)
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 SE SI SK SM TR

DOCDB simple family (publication)
WO 2010102627 A1 20100916; EP 2406553 A1 20120118; EP 2406553 A4 20180411

DOCDB simple family (application)
DK 2010000028 W 20100310; EP 10750385 A 20100310