

Title (en)

A METHOD AND AN APPARATUS IN A VENTILATION SYSTEM

Title (de)

VERFAHREN UND VORRICHTUNG IN EINEM BELÜFTUNGSSYSTEM

Title (fr)

PROCÉDÉ ET APPAREIL DANS UN SYSTÈME DE VENTILATION

Publication

**EP 2516934 A1 20121031 (EN)**

Application

**EP 10839878 A 20101207**

Priority

- SE 0901592 A 20091221
- SE 2010000288 W 20101207

Abstract (en)

[origin: WO2011078757A1] A method for recovering heat and humidity in a ventilation system comprises the steps of cooling warm and humid exhaust air (4) at a condensation surface (10) in a heat exchanger (1) and collecting the condensate(12) as formed, heating dry and cold supply air (7) at the opposite side of the condensation surface (10) and atomizing the condensate (12) and supplying the atomized condensate to the supply air (7) at the supply air inlet (8) of the heat exchanger (1). The atomizing is generated by means of a piezoelectric atomizer (15). A device for recovering heat and humidity in a heat exchanger (1) in a ventilation system comprises a condensation surface (10) at the exhaust air side (2) of the heat exchanger (1) and a collection device (11, 14) for condensate (12). At the inlet (8) of the supply air side (3) of the heat exchanger (1) there is provided a piezoelectric atomizer (15) that is fed with the condensate (12) for supplying atomized condensate (13) to the inlet (8).

IPC 8 full level

**F24F 3/147** (2006.01); **F24F 6/02** (2006.01); **F24F 6/12** (2006.01)

CPC (source: EP SE US)

**F24F 3/147** (2013.01 - EP SE US); **F24F 6/02** (2013.01 - SE); **F24F 6/12** (2013.01 - SE); **F24F 6/00** (2013.01 - EP US);  
**F24F 6/12** (2013.01 - EP US); **F24F 12/006** (2013.01 - EP US); **F24F 13/222** (2013.01 - EP US); **Y02B 30/56** (2013.01 - EP US)

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 2011078757 A1 20110630**; EP 2516934 A1 20121031; EP 2516934 A4 20180418; SE 0901592 A1 20110622; SE 534398 C2 20110809;  
US 2012255705 A1 20121011

DOCDB simple family (application)

**SE 2010000288 W 20101207**; EP 10839878 A 20101207; SE 0901592 A 20091221; US 201013517298 A 20101207