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

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Application

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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).

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