

Title (en)

DEVICE FOR AIR/WATER EXTRACTION BY SEMI-HUMID ELECTROSTATIC COLLECTION AND METHOD USING SAME

Title (de)

VORRICHTUNG ZUR LUFT-/WASSER-EXTRAKTION DURCH HALBFEUCHTES ELEKTROSTATISCHES AUFFANGEN UND VERWENDUNGSVERFAHREN DAFÜR

Title (fr)

DISPOSITIF D' EXTRACTION AIR/EAU PAR COLLECTION ELECTROSTATIQUE SEMI-HUMIDE ET PROCEDE UTILISANT CE DISPOSITIF

Publication

EP 1919626 A1 20080514 (FR)

Application

EP 06762783 A 20060724

Priority

- EP 2006007282 W 20060724
- FR 0508100 A 20050728

Abstract (en)

[origin: WO2007012447A1] The invention concerns a device for air/water extraction by semi-humid electrostatic collection, comprising a chamber (7) containing a discharge electrode (1) for generating an ion flow from an ionized gas accumulation surrounding the discharge electrode (1) and a counter-electrode (2), an inlet (3) for mixing air and aerosol to be extracted which contains liquid or solid particles, a steam supply tube (8) and an outlet (4) for cleansed air. The invention is characterized in that the device enables steam to be introduced through said steam supply tube (8) in the gap between the discharge electrode (1) and the counter-electrode (2) so as to form a steam sheath (10) enclosing the discharge electrode over its entire length, such that the treated air is not steam-saturated.

IPC 8 full level

B03C 3/32 (2006.01)

CPC (source: EP US)

B03C 3/16 (2013.01 - EP US); **B03C 3/32** (2013.01 - EP US)

Cited by

US9610587B2; DE102021128346A1; DE102021129045A1; WO2023079162A2; DE102021119736A1

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 2007012447 A1 20070201; AT E467459 T1 20100515; DE 602006014278 D1 20100624; EP 1919626 A1 20080514; EP 1919626 B1 20100512; FR 2889082 A1 20070202; FR 2889082 B1 20071005; JP 2009502457 A 20090129; JP 5400379 B2 20140129; US 2008295687 A1 20081204; US 8206494 B2 20120626

DOCDB simple family (application)

EP 2006007282 W 20060724; AT 06762783 T 20060724; DE 602006014278 T 20060724; EP 06762783 A 20060724; FR 0508100 A 20050728; JP 2008523210 A 20060724; US 99687906 A 20060724