

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 B1 20100512 (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

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CPC (source: EP US)

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Cited by

US9610587B2; DE102021128346A1; DE102021119736A1; DE102021129045A1; WO2023079162A2

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