

Title (en)

SELECTIVE AEROSOL PARTICLE COLLECTING METHOD AND DEVICE, ACCORDING TO PARTICLE SIZE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM SELEKTIVEN SAMMELN VON AEROSOLPARTIKELN NACH PARTIKELGRÖSSE

Title (fr)

METHODE ET DISPOSITIF DE COLLECTE DE PARTICULES D'AEROSOLS, A COLLECTE SELECTIVE EN FONCTION DE LA GRANULOMETRIE DES PARTICULES

Publication

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Application

EP 16744761 A 20160728

Priority

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- EP 2016067992 W 20160728

Abstract (en)

[origin: WO2017017179A1] The invention relates to a method and device for collecting particles which may be present in an aerosol. The invention consists in electrostatically collecting all the particles in an aerosol, but uncoupling mechanisms of particle charging by unipolar ion diffusion, for charging then collecting the finest particles, from particle charging by a corona effect electrical field, for charging then collecting the biggest particles in a different collection zone from the collection zone for the finest particles. The invention also relates to the use of such a device as ionisation chamber or for evaluating the exposure of workers or consumers to nanoparticles.

IPC 8 full level

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