

Title (en)

METHOD FOR CLASSIFYING AND SEPARATING PARTICLES, AND DEVICE FOR CARRYING OUT SAID METHOD

Title (de)

VERFAHREN ZUM KLASSIFIZIEREN UND TRENNEN VON TEILCHEN SOWIE VORRICHTUNG ZUR DURCHFÜHRUNG DIESES VERFAHRENS

Title (fr)

PROCEDE POUR CLASSIFIER ET SEPARER DES PARTICULES ET DISPOSITIF POUR REALISER CE PROCEDE

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Application

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Abstract (en)

[origin: WO2007016711A1] The invention relates to a method for classifying and separating particles in a fluid stream, according to which the particles are sprayed and electrically charged and deviated in an electrical field. According to the invention, a partial flow of the charged or ionised particles is introduced into an analyser (4) and deviated under variation of the applied high voltage or electrical field, particles penetrating a detection chamber (10) according to separation criteria such as charge or particle size. The high voltage and/or field intensity corresponding to a species detected in the detector chamber (10) are read and/or stored as a reference value. The particle flow is guided into a separator (5) wherein the high voltage and/or field intensity previously determined as a reference value are adjusted, and particles of the species deviated in the detection chamber (10) in the analyser (4) are correspondingly enriched and extracted.

IPC 8 full level

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