

Title (en)

METHOD AND DEVICE FOR COLLECTING SUSPENDED PARTICLES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR SAMMLUNG VON SUSPENDIERTEN PARTIKELN

Title (fr)

PROCEDES ET DISPOSITIF POUR RECUEILLIR DES PARTICULES EN SUSPENSION

Publication

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Application

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Abstract (en)

[origin: WO2005110605A1] The invention relates to methods for collecting particles (1, 2), which are suspended in a liquid, having the following steps: providing the liquid with the suspended particles (1, 2) in a compartment (10) with lateral surfaces (11), at least one electrode (21) being placed on at least one of the lateral surfaces (11), and; generating high-frequency electrical fields with the at least one electrode (21) for forming at least one circulating flow (30) with which the particles (1, 2) are led to at least one predetermined collecting area (40) in the compartment (10). The flow (30) is formed in such a manner that at least one branch of the flow extends along a longitudinal extension of the at least one electrode (21), and the flow (30) circulates around an axis (31) oriented perpendicular to the respectively adjacent lateral surface (11). The invention also relates to correspondingly operating devices for collecting particles.

IPC 8 full level

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