

Title (en)

METHOD AND DEVICE FOR CHARACTERISING MULTIPLE SAMPLES OF ONE OR SEVERAL DISPERSIONS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR CHARAKTERISIERUNG VON MULTIPLLEN PROBEN EINER ODER VERSCHIEDENER DISPERSIONEN

Title (fr)

PROCEDE ET DISPOSITIF POUR CARACTERISER DE MULTIPLES ECHANTILLONS D'UNE OU DE DIFFERENTES DISPERSIONS

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2005085802A1] The invention relates to a method and device for automatically determine physical and colloidal characteristics selected (for example according to the grain size, distribution of the grain sizes, a hindrance function and a structural stability indexes) by detecting the attenuation of waves injected through mono or polydispersed samples exposed to gravitation or centrifugation. Said invention is characterised in that during separation by gravitation or centrifugation at any moment, simultaneously for several samples which are also concentrated and exhibit known and/or unknown physical or colloidal characteristics, the instantaneous characterising an actual separation state transmission $IT(t, r)$ of the waves injected at intensity $I0(t, r)$ and/or instantaneous diffusion $IS(t, r)$ are detected at a high resolution and repeatedly recorded as a function of the position thereof inside a sample for one or several wavelengths on the entire sample length or the selected segment thereof.

IPC 8 full level

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Citation (search report)

See references of WO 2005085802A1

Citation (examination)

T SOBISCH ET AL: "Application of a new separation analyzer for the characterization of dispersions stabilized with clay derivatives", COLLOID AND POLYMER SCIENCE ; KOLLOID-ZEITSCHRIFT UND ZEITSCHRIFT FÜR POLYMERE, vol. 278, no. 4, 1 January 2000 (2000-01-01), Berlin, DE, pages 369 - 374, XP055489228, ISSN: 1435-1536, DOI: <https://doi.org/10.1007/s003960050527>

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