

Title (en)

METHOD AND DEVICE FOR MEASURING AND MONITORING CONCENTRATION OF SUBSTANCES IN A BIOLOGICAL FLUID

Title (de)

VERFAHREN UND VORRICHTUNG ZUR MESSUNG UND ÜBERWACHUNG DER KONZENTRATION VON STOFFEN IN EINER BIOLOGISCHEN FLÜSSIGKEIT

Title (fr)

PROCÉDÉ ET DISPOSITIF DE MESURE ET DE SURVEILLANCE DES CONCENTRATIONS DE SUBSTANCES DANS UN LIQUIDE BIOLOGIQUE

Publication

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Application

EP 11741089 A 20110527

Priority

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- EE P201000049 A 20100527
- EE 2011000005 W 20110527

Abstract (en)

[origin: WO2011147425A1] Method and device for monitoring removal of hardly or easily diffusible uremic retention solutes during dialysis and for measuring concentration of said substances in a biological fluid, and more specifically in the spent dialysate, for estimation of dialysis dose on dialysis patients. Measurements are performed optically utilizing spectrum of the biological fluid and a concentration calculation algorithm containing the transforming function, including a unique set of optical spectral components at certain wavelengths, to determine the concentration of the substances in specimens in-vitro or flowing fluids on-line. Method and device determines the concentration of the substances in-vitro or on-line utilizing a measuring cuvette suitable for specified measurements. This enables monitoring quantitatively concentrations of substances in a biological fluid and calculation of the dialysis dose for hardly or easily diffusible uremic retention solutes, suitable for automatic and time-efficient way to review the dialysis quality delivered to the end stage renal disease patients.

IPC 8 full level

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CPC (source: EP)

G01N 21/33 (2013.01); **G01N 21/85** (2013.01); **G01N 21/05** (2013.01)

Citation (search report)

See references of WO 2011147425A1

Citation (examination)

- EP 2605810 A1 20130626 - BRAUN B AVITUM AG [DE]
- DE 102010034626 A1 20120223 - BRAUN B AVITUM AG [DE]

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