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(54) Title: METHOD, SYSTEM, AND COMPUTER-READABLE MEDIUM FOR OPERATING AND MONITORING THE
CLEANING OF SAMPLE PROCESSING INSTRUMENTS

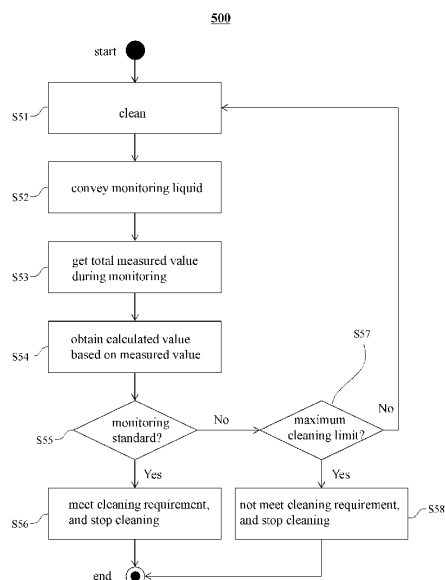


FIG.12

(57) Abstract: Provided is a method for operating and cleaning a sample processing instrument comprising steps, performed by a control device, of: directing a first sample comprising first particles through a flow cell in the sample processing instrument; processing the first sample; cleaning the flow cell of the sample processing instrument with a cleaning agent; measuring a carryover amount in the flow cell after the cleaning, wherein the carryover amount comprises a measurement associated with an amount of the first particles remaining in a measurement region of the flow cell; comparing the measured carryover amount against a predetermined target value, wherein the target value corresponds to a value indicative of a cleaning requirement; and determining, based on the comparison, whether the cleaning requirement is met. Provided are further method for monitoring cleaning of a sample processing instrument, system for operating and cleaning a sample processing instrument, sample processing instrument and computer-readable medium.

WO 2023/065796 A1

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