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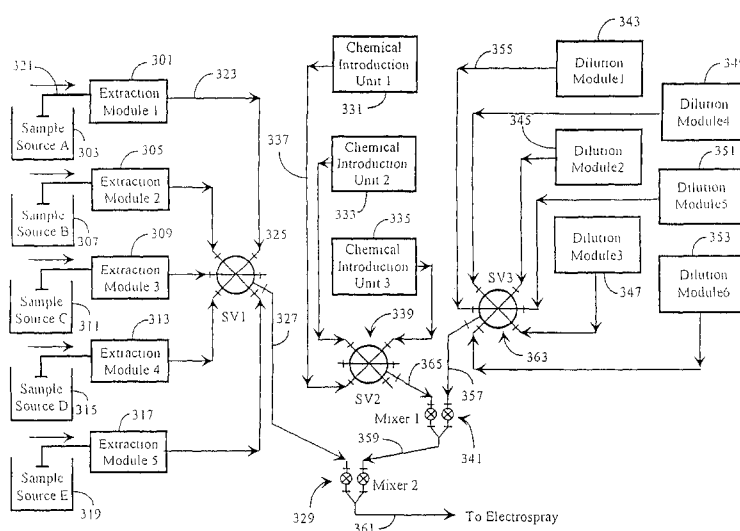
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(54) Title: METHOD AND INSTRUMENT FOR AUTOMATED ANALYSIS OF FLUID-BASED PROCESSING SYSTEMS



(57) Abstract: An analytical apparatus to monitor fluid systems having at least one extraction module (301, 305, 309, 313, 317) with a raw-sample reservoir (303, 307, 311, 315, 319) connected to individual ones of the monitored fluid systems, to extract samples for analysis, one or more modification modules (331, 333, 335, 343, 345, 347, 349, 351, 353) containing materials for addition to the samples, an analytical device (231) to receive and analyze at least a portion of the samples in an ordered sequence, and a computerized control and management system to control operation of the modules and analytical device (231) and report results. The apparatus extracts raw samples from each monitored fluid systems, modifies the samples as needed, sequentially introduces the samples into the analytical device and reports the analytical results on a continuous basis over plural cycles as directed by the control and management system (231).



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