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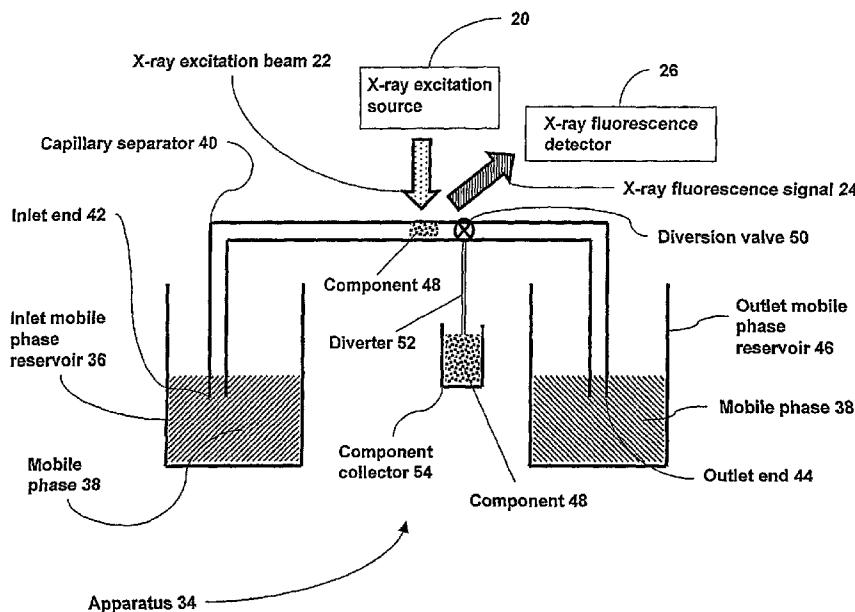
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(54) Title: FLOW METHOD AND APPARATUS FOR SCREENING CHEMICALS USING MICRO X-RAY FLUORESCENCE



(57) Abstract: Flow method (Figure 1) and apparatus (Figure 2) for screening chemicals using micro x-ray fluorescence (26). The invention includes a method and apparatus for screening a mixture of potential pharmaceutical chemicals (16) for binding to at least one target binder. According to the method, after preparing a solution of potential pharmaceutical chemicals with at least one target binder (16), the solution is flow-separated (18) into at least two separated components (28 and 30). Each component (48) is exposed to an x-ray excitation beam (20). Any component that emits a detectable x-ray fluorescence signal (24) is isolated (52).

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