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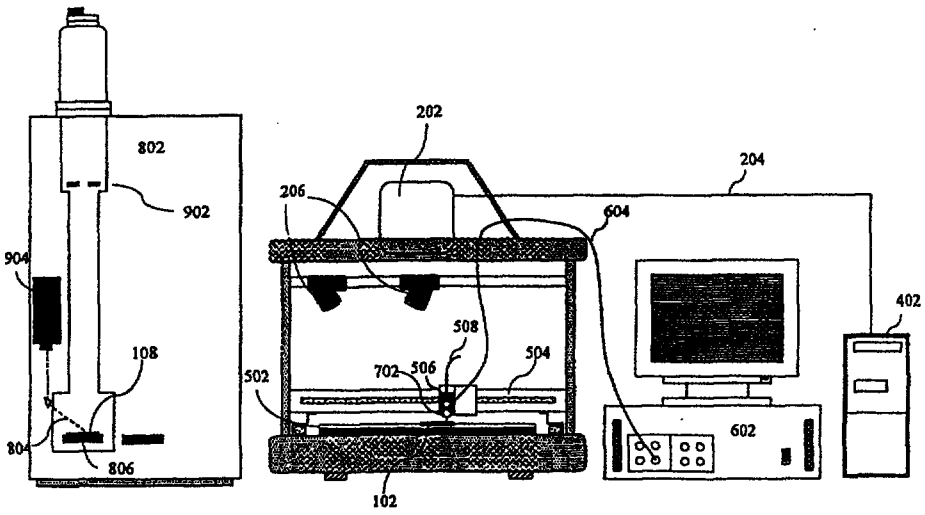
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(54) Title: ANALYSIS OF MOLECULES



(57) Abstract

A method for analysing at least one sample in an array of samples, the method including the steps of: (a) recording an image of the position of at least one sample relative to the other samples in the array; (b) utilising the recorded image so as to allow the application of a reagent or a succession of reagents to the at least one sample *in situ*; and (c) analysing the at least one sample for a reaction to or with the reagent(s). An apparatus for analysing at least one sample in an array of samples, the apparatus including (a) means (202) for recording an image of the position of the at least one sample relative to the other samples in the array (108); (b) means (508) for applying a reagent or sequence of reagents to the at least one sample *in situ*; (c) means (806) for analysing the at least one sample for a reaction to or with the reagent(s); and (d) control means (402) for means (b), wherein means (b) applies the reagent to the at least one sample according to the position of the sample relative to the other samples in the array determined by means (a).