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(54) Title: A METHOD OF MEASURING THE PH OF A SAMPLE

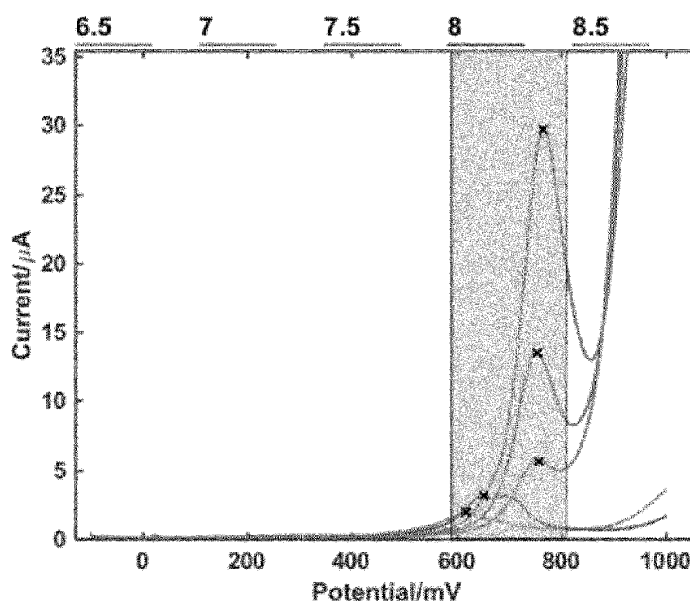


Fig. 7a

(57) Abstract: The present invention provides a more sensitive and accurate method of monitoring the pH of a solution, wherein the pH of the solution is quantified as a function of the electrochemical response of the solution in a two or three-electrode electrochemical cell, wherein the solution comprises a compound capable of undergoing a change in its oxidation state and/or structural conformation as a function of the pH of the solution. The present invention also provides highly accelerated methods and processes enabling analysis of specific polynucleotide sequences in a sample, e.g. a biological sample. The methods of the inventions are, for example, useful for rapid screening of a large amount of samples in a point-of-care setting.

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