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(54) Title: SYSTEMS, DEVICES AND METHODS FOR ANALYSIS

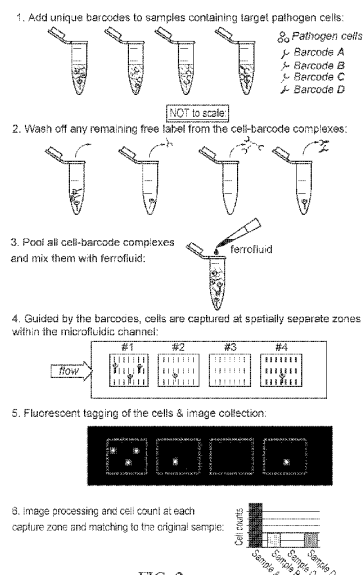


FIG. 2

(57) Abstract: The subject disclosure presents, in some embodiments, is systems, devices and methods for multi-sample analyte analysis. In some such embodiments, a method is presented which includes labeling at least one target analyte in each of a plurality of individual samples with at least one unique label probe. The method further includes combining the plurality of individual samples into a mixture, and flowing the mixture within at least one fluidic channel/line having arranged thereon or in fluid communication with at least one set of a plurality of spatially distinct capture zones. Embodiments of the present disclosure additionally relate to, among other things, systems, devices, and related methods for operating the same, to analyze and rapidly identify and quantify microbial pathogens in environmental, food, and clinical settings. Specifically, a rapid one-step FISH method where fixation, permeabilization and addition of fluorescent labeled probe all occur in one step on a ferrofluidic system.

WO 2022/015845 A3

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