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(54) Title: SYSTEM AND METHODS FOR CALIBRATING BINDING DYES

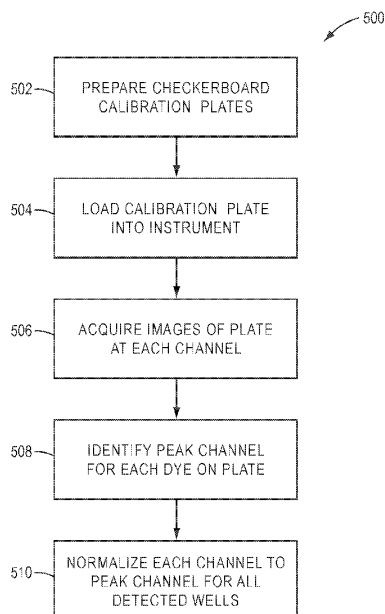


FIG. 5

(57) Abstract: A computer-implemented method (500) for calibrating a fluorescent dye is described. The method (500) comprises imaging a sample holder, loaded into an instrument, at more than one channel. The sample holder comprises a plurality of reaction sites and more than one dye type, with each dye occupying more than one reaction site. The method further comprises identifying a peak channel for each dye on the sample holder (508), normalizing each channel to the peak channel for each dye (510), and producing a dye matrix (518) that comprises a set of dye reference values.

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