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(71) Applicant: **BIO-TECHNE CORPORATION** [US/US];
614 McKinley Place NE, Minneapolis, MN 55413 (US).

(72) Inventors: **MA, Xiao-Jun**; 7707 Gateway Boulevard, Suite 200, Newark, CA 94560 (US). **ZHANG, Bingqing**; 7707 Gateway Boulevard, Suite 200, Newark, CA 94560 (US). **WANG, Li-chong**; 7707 Gateway Boulevard, Suite 200, Newark, CA 94560 (US). **LU, Han**; 7707 Gateway Boulevard, Suite 200, Newark, CA 94560 (US). **WANG, Li**;

7707 Gateway Boulevard, Suite 200, Newark, CA 94560 (US). **ZONG, Hailing**; 7707 Gateway Boulevard, Suite 200, Newark, CA 94560 (US).

(74) Agent: **CADENA, Deborah** et al.; Jones Day, 250 Vesey Street, New York, NY 10281-1047 (US).

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(54) Title: METHODS FOR MULTIPLEX DETECTION OF NUCLEIC ACIDS BY IN SITU HYBRIDIZATION

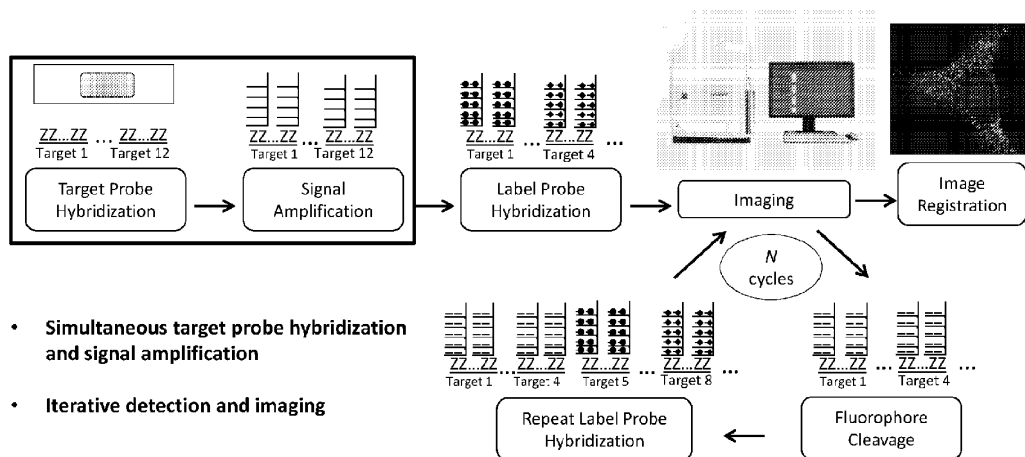


FIGURE 2

(57) Abstract: The invention relates to methods of multiplex detection of a plurality of target nucleic acids by contacting a sample comprising a cell with target probe sets that specifically hybridize to target nucleic acids, with pre-amplifiers or pre-pre-amplifiers specific for each target probe set, with amplifiers specific for the pre-amplifiers, and with label probes specific for the amplifiers, resulting in specific labeling of multiple target nucleic acids. The invention also relates to samples, slides and kits relating to detection of multiple target nucleic acids.

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