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(71) Applicant: **GENOMIC HEALTH, INC.** [US/US]; 301 Penobscot Drive, Redwood City, California 94063 (US).

(72) Inventors: **YEUNG, Hubert**; 301 Penobscot Drive, Redwood City, California 94063 (US). **YUAN, Amy Lee Hsieh**; 301 Penobscot Drive, Redwood City, California

94063 (US). **LEE, Chun Wai**; 301 Penobscot Drive, Redwood City, California 94063 (US). **MORALEDA, Gabriel Jesus Samuel Perlas**; 301 Penobscot Drive, Redwood City, California 94063 (US). **CASSEL, Jonathan M.**; 301 Penobscot Drive, Redwood City, California 94063 (US).

(74) Agent: **KUAN, Roger C.** et al.; McDermott Will & Emery LLP, The McDermott Building, 500 North Capital Street, N.W., Washington, District of Columbia 20001-1531 (US).

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(54) Title: SYSTEMS AND METHODS FOR PRE-ANALYTICAL SUBSTRATE PROCESSING

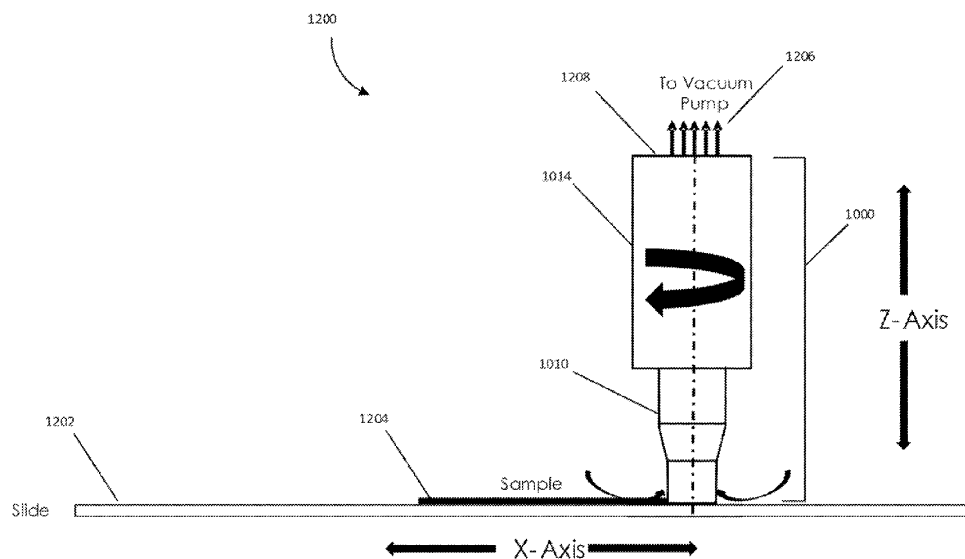


FIG. 12

(57) Abstract: Some embodiments presented in this disclosure concern an Automated Tissue Dissection (ATD) System. An ATD system is a one stop, and potentially low-cost, system to perform dissections on a substrate from pathologist digital mark or pen mark on the substrate using non-contact and/or mechanical method to extract a Formalin-Fixed Paraffin-Embedded (FFPE) tissue sample with: (a) only the ROI or ROIs as area to be saved; and (b) remove or decompose nucleic acid content in the region of no interest (RONI) and collect all tissue sample from a standard microscope substrate into a specific container.

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