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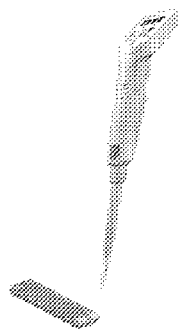
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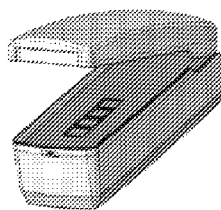
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(54) Title: SYSTEMS AND METHODS FOR BIOLOGICAL ANALYSIS



Step #1 & #2
Load and Seal



Step #3
Cycle and Detect

FIG. 3

(57) Abstract: A system for performing biological reactions is provided. The system includes a chip including a substrate and a plurality of reaction sites. The plurality of reaction sites are each configured to include a liquid sample of at most one nanoliter. Further, the system includes a control system configured to initiate biological reactions within the liquid samples. The system further includes a detection system configured to detect biological reactions on the chip. According to various embodiments, the chip includes at least 20000 reaction sites. In other embodiments, the chip includes at least 30000 reaction sites.



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