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(54) **Title:** LIBRARY PREPARATION SYSTEMS AND ASSOCIATED METHODS

(57) **Abstract:** Library preparation systems and methods are disclosed. In an implementation, a modular bay for preparing a library of samples for sequencing, the modular bay comprising a contact dispenser and a working area comprising a working plate receptacle adapted to receive a working plate, a thermocycler, a magnet, and a drawer. The drawer comprising a consumables area adapted to receive a sample plate adapted to contain a sample, and a plurality of consumables for interacting with the sample in the working plate. The contact dispenser is linearly movable in a longitudinal direction between the consumables area and the working area, such that the contact dispenser is configured to (i) move the sample from the sample plate in the consumables area to the working plate in the working area, and (ii) move the plurality of consumables between the consumables area and the working plate in the working area.



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