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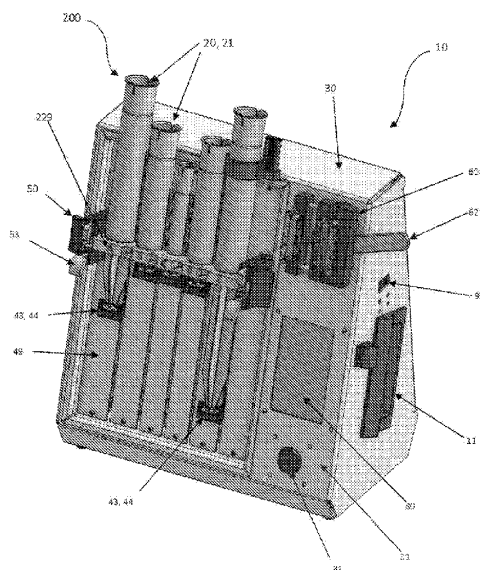
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(54) Title: APPARATUS, SYSTEM, AND METHOD FOR AUTOMATED FILLING OF SYRINGES

Fig. 1



(57) **Abstract:** Embodiments provide apparatus, systems and methods for automated filling of syringes. One embodiment of an apparatus for filling of a plurality of syringes (POS) comprises a housing, a push-pull mechanism (PPM) disposed within the housing, a syringe locking mechanism (SLM) coupled to the housing, a manifold engagement fixture (MEF) mounted on the housing, a processor and a touch screen (TS) positioned on the housing. The PPM engages the POS and independently advances or retracts a plunger of each syringe. The SLM engages and constrains the POS to substantially prevent syringe motion during filling. The MEF includes a cam mechanism having a lever means (e.g., a lever arm) and is configured to detachably engage halves of a multi-port fluid manifold and bring them together to form a fluidic seal by movement of the lever arm. The TS allows for haptic input and display of information associated with operation of the apparatus.

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