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(54) Title: DISPENSING UNIT HAVING FIXED FLEXIBLE DIAPHRAGM SEAL

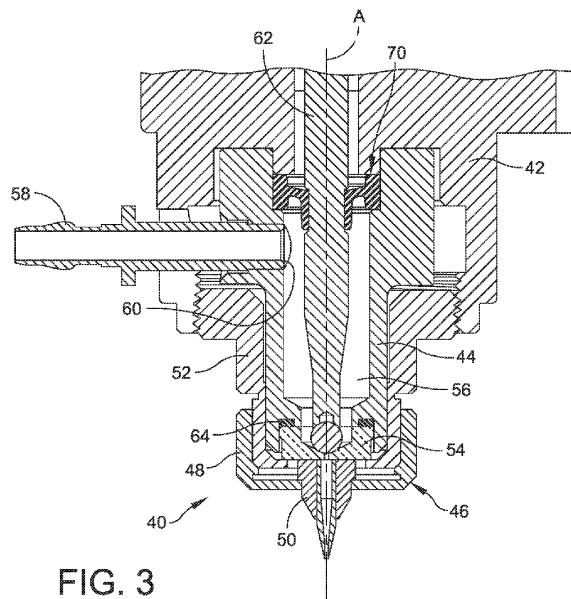


FIG. 3

(57) Abstract: A dispensing unit (40) of a dispensing system (10) configured to dispense viscous material on an electronic substrate includes a support housing (42) and a fluidic housing (44) supported by the support housing. The fluidic housing includes a chamber and an inlet configured to deliver viscous material to the chamber from a material feed tube. The dispensing unit further includes a nozzle assembly (46) releasably secured to the housing and configured to close an end of the fluidic housing. The dispensing unit further includes a reciprocating piston (62) disposed partially within the chamber of the fluidic housing. The piston is configured to dispense viscous material from the nozzle assembly. The dispensing unit further includes a fixed flexible diaphragm seal (70) configured to be secured to the fluidic housing and to the piston.

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WO 2021/194819 A1

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