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(54) Title: DISPENSING UNIT MASS DAMPENER

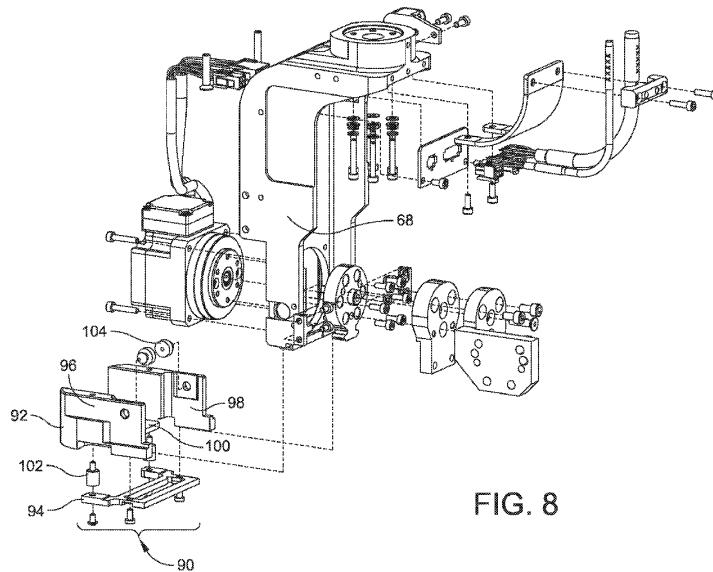


FIG. 8

(57) Abstract: A dispensing system includes a frame, a support, a dispensing unit assembly, and a gantry. The gantry is configured to support the dispensing unit assembly and to move the dispensing unit assembly in x-axis and y-axis directions. The dispensing unit assembly includes a support bracket secured to the gantry and a movable bracket rotatably coupled to the support bracket configured to enable the rotation of the movable bracket with respect to the support bracket about a first axis, with a dispensing unit rotatably coupled to the movable bracket configured to enable the rotation of the dispensing unit with respect to the movable bracket about a second axis generally perpendicular to the first axis. A mass dampener assembly is coupled to the movable bracket, with the mass dampener assembly being configured to reduce vibration of the dispensing unit during operation.

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