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- (54) **Title:** TILT AND ROTATE DISPENSER HAVING STRAIN WAVE GEAR SYSTEM

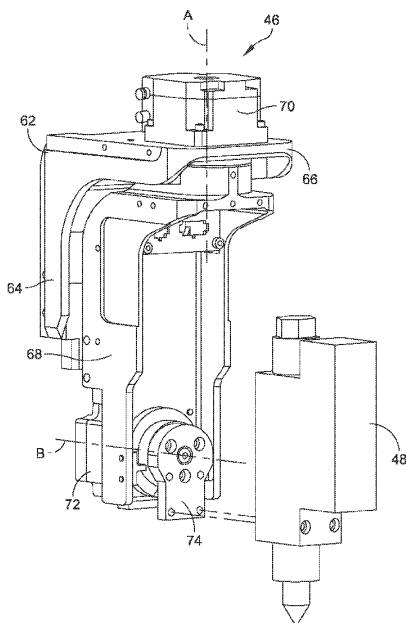


FIG. 5

(57) **Abstract:** A dispensing system includes a dispensing unit assembly configured to dispense viscous material and a gantry coupled to the frame. 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 by a first strain wave gear system configured to enable the rotation of the movable bracket with respect to the support bracket about a first axis. The dispensing unit assembly further includes a dispensing unit rotatably coupled to the movable bracket by a second strain wave gear system 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.