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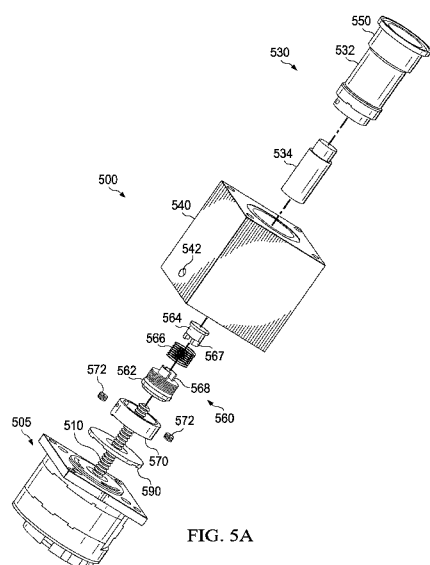


FIG. 5A

(57) Abstract: Backlash in a precision system such as a pumping system can be reduced or eliminated with an anti-backlash device that has a first nut coupled to and fixed in relation to a piston. The first nut and a second nut may engage with a lead screw of a motor driving the piston. Relative rotation between the first and second nuts are limited or prevented. A biasing member maintains a spaced relationship between the first and second nuts along the lead screw such that the first nut remains in engagement with the lead screw to thereby reduce or eliminate backlash when the lead screw is rotated by the motor.