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(54) Title: SYNCHRONIZED ACTUATOR HAVING MULTIPLE MOTORS FOR DOWNHOLE WELL TOOL

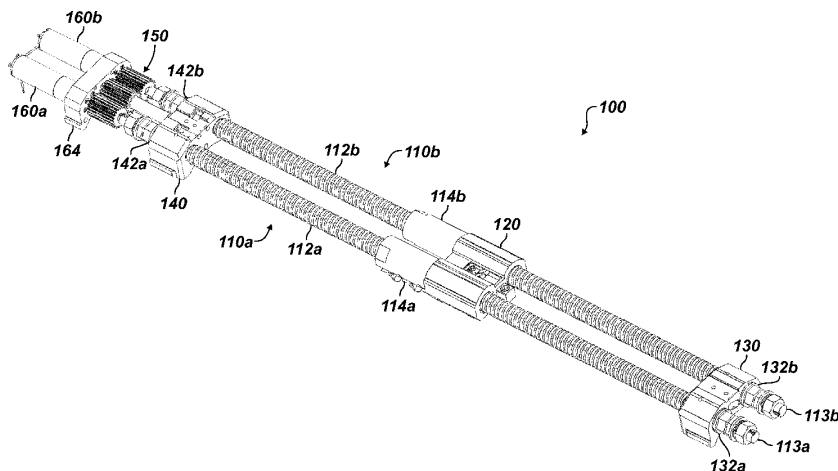


FIG. 4A

(57) Abstract: A downhole tool, for use in a well has multiple motors (160a, 160b) and two drive assemblies (110a, 110b) to displace a yoke (120). A member, such as a sliding sleeve (60), of the downhole tool is connected to the yoke and can be actuated in response to the displacement of the yoke. The drive assemblies include first and second rotatable screws (112a, 112b), and the yoke is disposed on the screws. Each motor can produce drive to rotate a respective screw. A respective gear (152a, 152b) is rotatable in association with at least the rotation of its associated screw. An intermediate gear (156) is engaged between these two gears. The intermediate gear interconnects the rotation of the two screws forcing them to rotate at the same speed. Likewise, the intermediate gear balances the drive of the motors forcing the two screws to rotate at the same speed.

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