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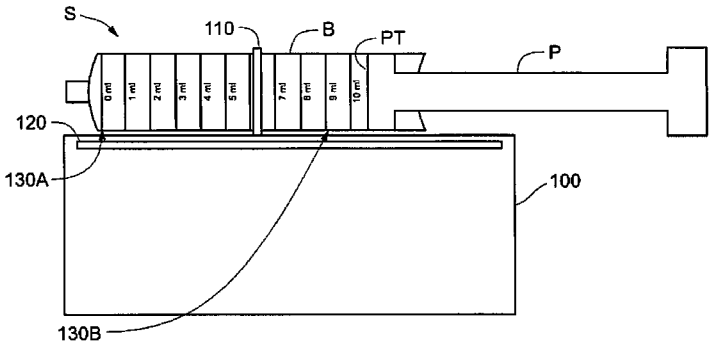
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Fig. 1



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(57) Abstract: A device for syringe characterization can include a syringe pump with a plunger driver, for a syringe configured to contain can a fluid, wherein the syringe includes a barrel and a plunger. The barrel and the plunger therewithin together define a central longitudinal axis of the syringe. The device can also include a barrel outer diameter sensor, and a linear position sensor in a substantially parallel orientation with the central longitudinal axis of the syringe when the syringe is installed in the syringe pump. At least one moveable marker can be in communication with the linear potentiometer, being capable of indicating a location along the linear potentiometer corresponding to a selected location on the barrel of the syringe when the syringe is installed in the syringe pump. The device can further include software for performing calculations that are indicative of syringe characterization, with respect to locations of selected ones of the at least one moveable marker and a diameter of the barrel that is sensed by the barrel outer diameter sensor.

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