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- (54) **Title:** HEAVY CRADLE FOR REPLACEABLE CORIOLIS FLOW SENSORS

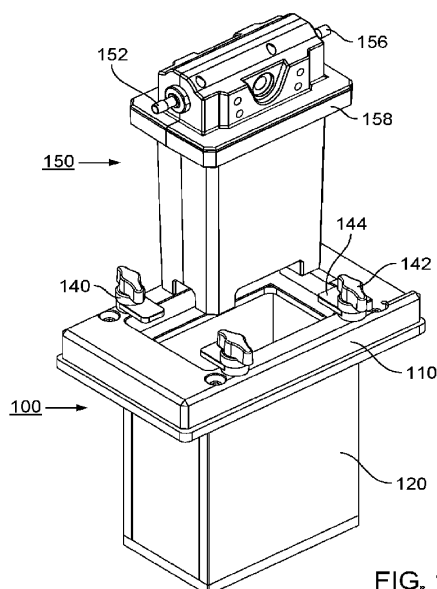


FIG. 1A

- (57) Abstract:** Embodiments relate to a flow process system comprising a cradle and a locking mechanism. The cradle has a mounting structure for a Coriolis flow sensor, and the cradle has significantly more mass than the Coriolis flow sensor. Tire locking mechanism is used to lock and unlock Coriolis flow sensors in place on the mounting structure. The locking mechanism produces sufficient locking force when locked that tire Coriolis flow sensor and cradle vibrate as a unitary body. In this way, the Coriolis flow sensor has effectively more mass when used as part of the flow process system, but Coriolis flow sensors may be easily replaced by unlocking the locking mechanism, removing the current Coriolis flow sensor and replacing it with another.

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