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(54) Title: RECIRCULATING INERTIAL HYDRODYNAMIC PUMP AND WAVE ENGINE

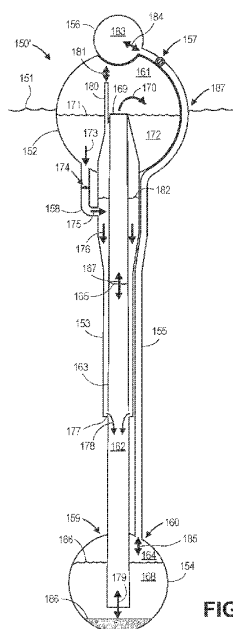


FIG. 17B

(57) Abstract: Embodiments include a buoyant wave energy converter. In an embodiment, the wave energy converter comprises an upper chamber having a first fluid reservoir and a first gas pocket, and a lower chamber having a second fluid reservoir and a second gas pocket. In an embodiment, an injection tube is between and fluidly coupled to the upper chamber and the lower chamber, where the injection tube is to impel a fluid from the second fluid reservoir into the first fluid reservoir when the upper chamber, the lower chamber and the injection tube oscillate about a waterline with the upper chamber adjacent to the waterline and the lower chamber submerged below the waterline and vertically beneath the upper chamber. An effluent tube is fluidly coupled to the upper chamber and the lower chamber, where the effluent tube is to return the fluid from the first fluid reservoir to the injection tube.

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