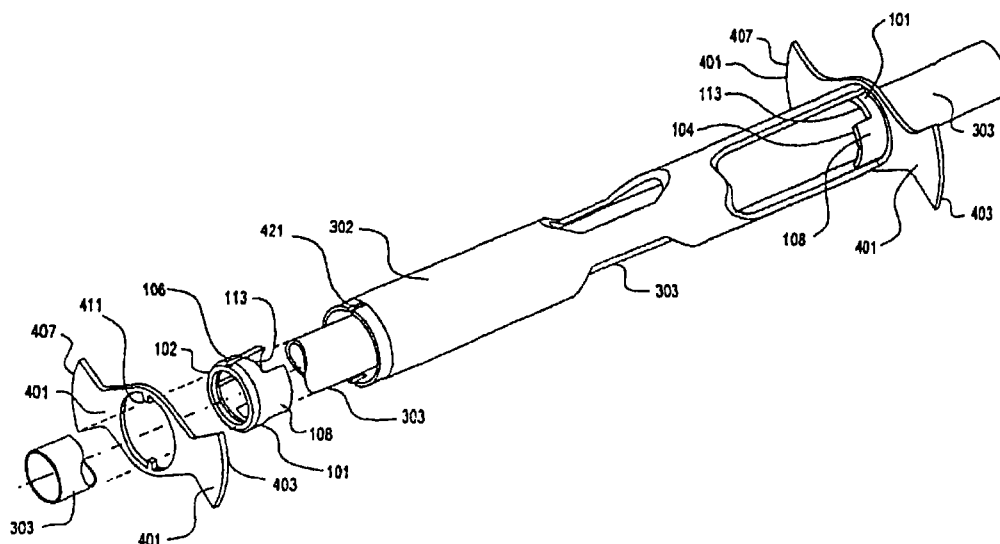


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(54) Title: LATERAL MODE STABILIZER FOR CORIOLIS FLOWMETER



(57) Abstract

Signal processing of Coriolis flowmeter output signals is improved by increasing the frequency separation between the flow tube drive frequency and unwanted lateral mode vibration frequencies. A cylindrical lateral mode stabilizer surrounds the flow tube near each flow tube end and is positioned between the flow tube and a surrounding balance bar. Axially lateral extensions on opposing circumferential sides of each lateral mode stabilizer element stiffen the flow tube ends for only lateral vibrations. This raises the lateral mode vibration frequency of the flow tube while leaving the drive mode frequency relatively unaffected.

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