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(54) Title: SYSTEMS AND METHODS FOR NON-INVASIVE DETERMINATION OF PROPERTIES OF PRESSURE VESSELS

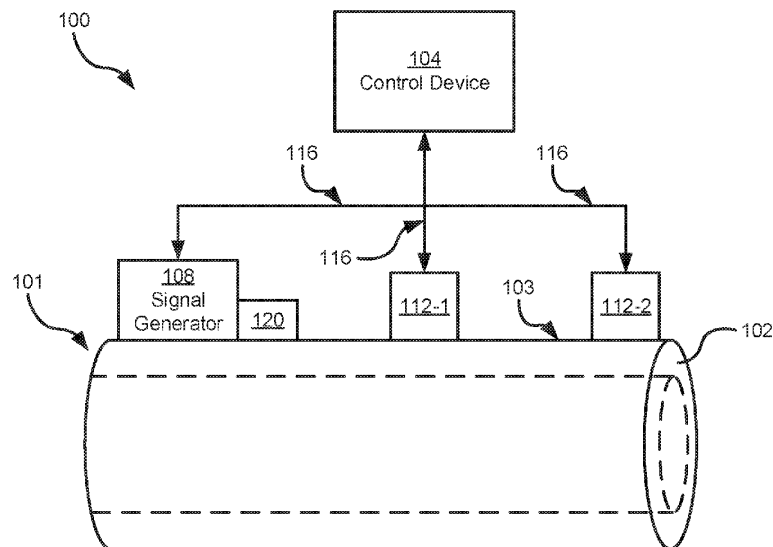


FIG. 1

(57) Abstract: An example system for non-invasive determination of target properties of a pressure vessel includes: a signal generator acoustically coupled to a fluid contained in the pressure vessel and disposed externally to the pressure vessel, the signal generator to emit acoustic signals into the fluid; a plurality of sensors acoustically coupled to the fluid and disposed externally to the pressure vessel to detect the acoustic signals; a control device interconnected with the signal generator and the plurality of sensors, the control device configured to: control the signal generator to emit acoustic signals into the pressure vessel; obtain sensor data from the plurality of sensors, the sensor data representing the acoustic signals as received by the plurality of sensors; compute, based on the detected signal data, the target properties of the pressure vessel; and output an indication of the target properties.

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