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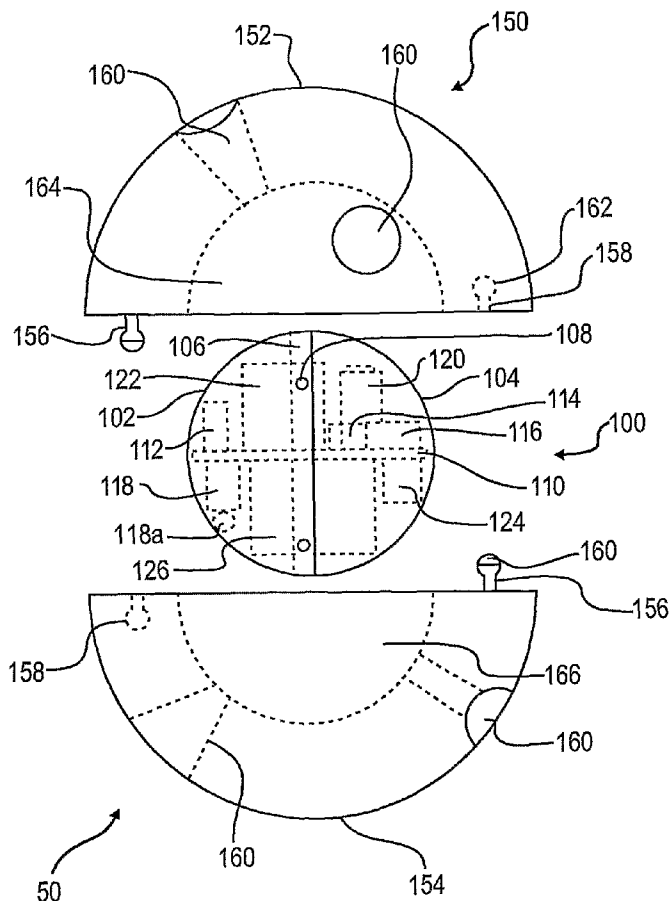
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(54) Title: ANOMALY DETECTOR FOR PIPELINES



(57) Abstract: A sensor unit for use in sensing

conditions in a pipeline comprises an untethered a ball-shaped surround adapted to roll along the interior surface of a pipeline, and instrument package within the ball-shaped surround. The package contains at least one magnetometer or accelerometer. Preferably, three magnetometers, arranged orthogonally, are present. Other sensors can also be present as required, such as an acoustic sensor to detect leaks and a temperature or chemical sensor. Recording means record the data acquired by the magnetometer(s) or accelerometer and the sensors, and optionally also record a timing trace.



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