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(54) Title: COOLANT MICROLEAK SENSOR FOR A VACUUM SYSTEM

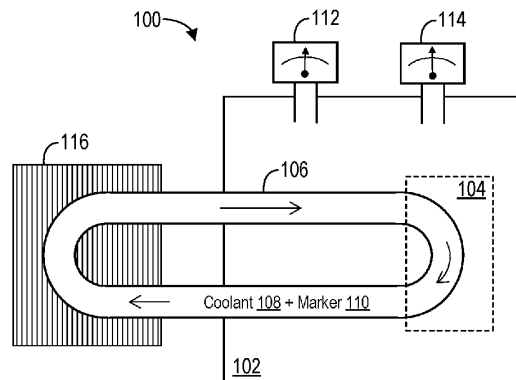


Figure 1A

(57) Abstract: A system includes a vacuum chamber and a component, disposed in the vacuum chamber, that heats up during operation. The system also includes a cooling line, mechanically coupled to the component, to circulate coolant to cool the component during operation. The system further includes a vacuum gauge to measure a total pressure in the vacuum chamber and an analyzer to measure a partial pressure in the vacuum chamber of a substance that can leak from the cooling line.

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