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(54) **Title:** USING VAPOR PRESSURE TO DETERMINE CONCENTRATIONS OF COMPONENTS IN A MULTI-COMPONENT FLUID

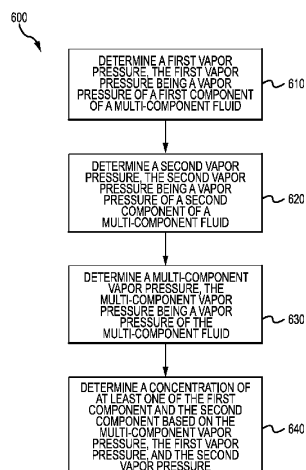


FIG.6

(57) **Abstract:** A system (700) for using a vapor pressure to determine a concentration of a component in a multi-component fluid is provided. The system (700) includes an electronics (710) communicatively coupled to a transducer (720) configured to sense a multi-component fluid. The electronics (710) is configured to determine a first vapor pressure, the first vapor pressure being a vapor pressure of a first component of the multi-component fluid, determine a second vapor pressure, the second vapor pressure being a vapor pressure of a second component of the multi-component fluid, and determine a multi-component vapor pressure, the multi-component vapor pressure being a vapor pressure of the multi-component fluid. The electronics (710) is also configured to determine a concentration of at least one of the first component and the second component based on the multi-component vapor pressure, the first vapor pressure, and the second vapor pressure.

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