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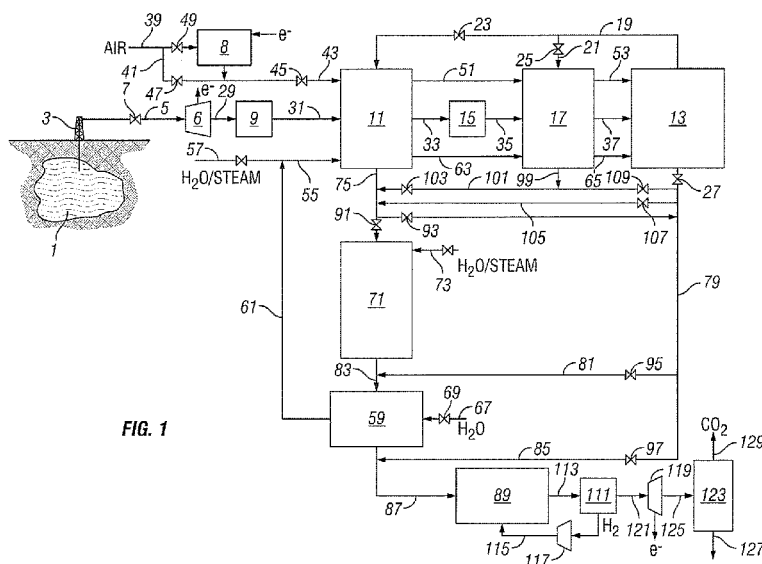
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(54) Title: METHOD FOR RECOVERING A NATURAL GAS CONTAMINATED WITH HIGH LEVELS OF CO₂

(57) Abstract: The present invention provides a method for recovering a natural gas contaminated with high levels of carbon dioxide. A gas containing methane and carbon dioxide is extracted from a reservoir containing natural gas, where carbon dioxide comprises at least 50 vol.% of the extracted gas. The extracted gas is oxidized with an oxygen containing gas in the presence of a partial oxidation catalyst at a temperature of less than 600°C to produce an oxidation product gas containing hydrogen, carbon monoxide, and carbon dioxide. The oxidation product gas is then utilized to produce a liquid hydrocarbon or a liquid hydrocarbon oxygenate.



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