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(54) Title: POWER CYCLE SYSTEM

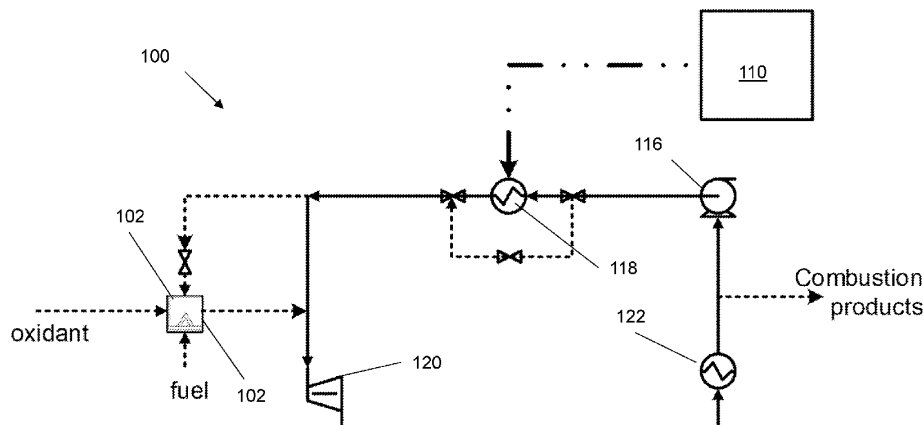


Fig. 2

(57) **Abstract:** The present disclosure relates to a power cycle system incorporated into a fusion power plant and which may adapt to the operational needs of the plant and reactor therein. The power cycle system comprises means for carrying a working fluid, indirect heating means configured to indirectly heating the working fluid using heat from a reactor of the fusion power plant, direct heating means configured to directly heat the working fluid, and a turbine configured to generate electrical power using heated working fluid. The system comprises a first mode of operation in which working fluid is indirectly heated using the indirect heating means while the direct heating means is thermally decoupled from the working fluid, and a second mode of operation in which the working fluid is heated using the direct heating means while the indirect heating means is substantially thermally decoupled from the working fluid.

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