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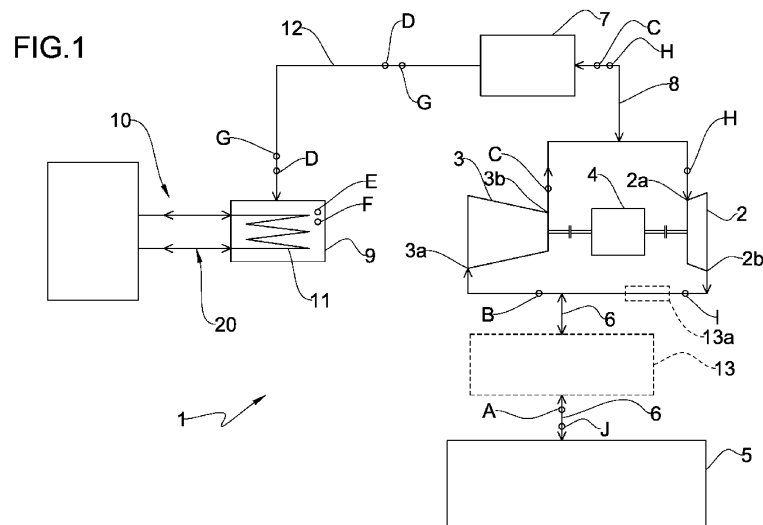
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(54) Title: ENERGY STORAGE PLANT AND PROCESS



(57) Abstract: An energy storage plant (1) comprises a casing (5) for the storage of a working fluid other than atmospheric air, in a gaseous phase and in equilibrium of pressure with the atmosphere; a tank (9) for the storage of said working fluid in a liquid or supercritical phase with a temperature close to the critical temperature; wherein said critical temperature is close to the ambient temperature. The plant (1) is configured to carry out a closed thermodynamic cyclic transformation (TTC), first in one direction in a charge configuration and then in the opposite direction in a discharge configuration, between said casing (5) and said tank (9); wherein in the charge configuration the plant (1) stores heat and pressure and in the discharge configuration generates energy.

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