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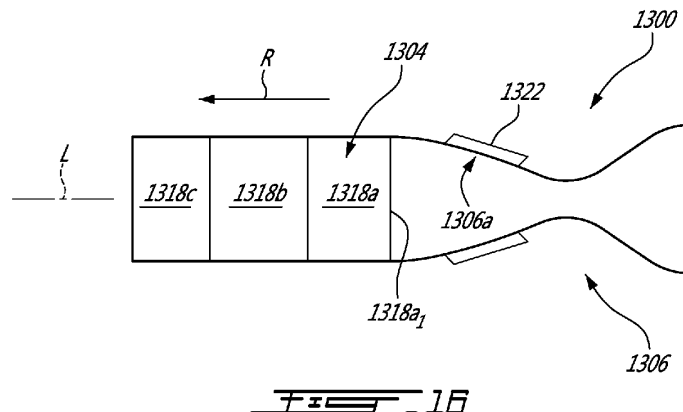
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(54) Title: ROCKET ENGINES



(57) Abstract: A rocket engine has a combustion chamber having an inlet and an outlet, the inlet fluidly connectable to a source of oxidizer, the outlet in fluid communication with an environment outside the combustion chamber for expelling combustion gases, a first fuel having a first solid propellant and a second fuel having a second solid propellant, the first and second fuels located within the combustion chamber and configured to be exposed to the oxidizer injected in the combustion chamber via the inlet, the first solid propellant having a regression rate greater than that of the second solid propellant. A hybrid rocket engine with a thrust vector control device is disclosed. A rocket engine with an integrated catalyst in manifold is disclosed.

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