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(54) **PROPELLANT APPLIED TO A THRUSTER AND METHOD OF MANUFACTURING THE SAME**

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CPC ..... **F03H 1/0012** (2013.01); **C06B 33/00** (2013.01); **F02K 9/10** (2013.01); **F02K 9/24** (2013.01)

(58) **Field of Classification Search**  
None  
See application file for complete search history.

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(57) **ABSTRACT**

A propellant applied to a thruster, especially a pulsed plasma thruster, has a composition including a polymer and a metal powder material mixed with the polymer. A method of manufacturing the propellant includes dissolving polymer particles in a solvent for generating a solution, adding a powdered metal material to the solution for obtaining a mixture, and drying the mixture for removing the solvent from the mixture. Accordingly, a dried mixture is acquired and defined as a metal composite polymer which serves as the composition of the propellant. Accordingly, the use of the propellant allows a decrease in the voltage involved in a

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