

USE OF PRESSURIZING GAS

Use of pressurizing gas from a satellite tank to deploy a desorbitation system

Technological benefits

Use of pressurizing gases

- Taking advantage of «unnecessary» gases contained in reservoirs for inflating or deploying an appendage during the passivation stage
- Compliance with the space law on pressurized systems

Simpler satellite desorbitation

- Increases drag by deploying an element that increases the satellite surface

Invention overview

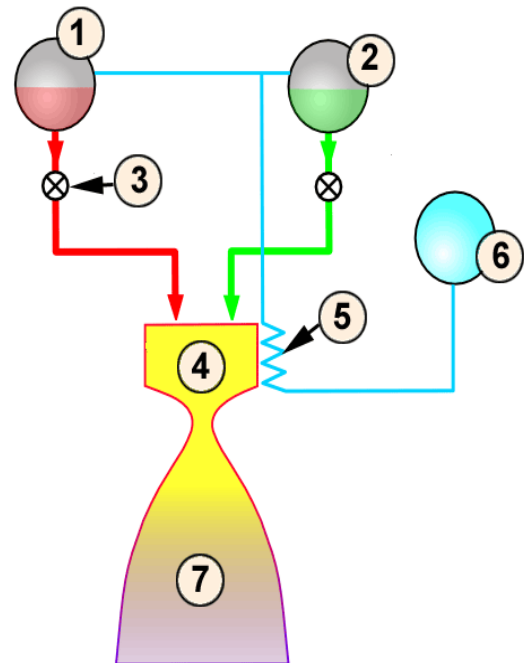
Current reservoirs, with membrane, use a pressurisation gas to maintain an adequate pressure along their depletion.

This invention uses the pressurization gas present in the fuel tank to deploy an inflatable semi-rigid appendage allowing desorbitation of the satellites at the end of their life.

Potential applications

Spatial

- Satellite in low orbit having a chemical propulsion system or cold gas



Commercial benefits

- Cost reduction by avoiding an additional propulsion system
- The satellite remains on mission longer
- Less desorbitation fuel needed
- More fuel usable during the mission

TRL : 3

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