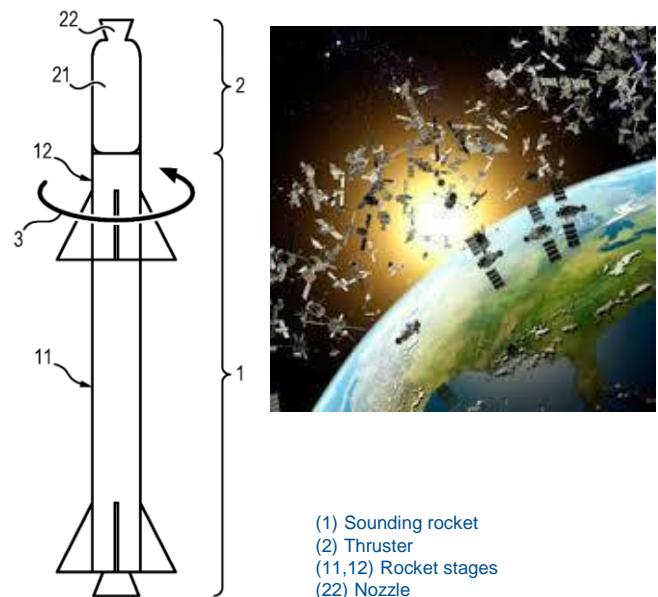




ON A PROCESS AND METHOD FOR DEFLECTING SPACE DEBRIS

Technological advantages

- ⌚ Reduction in collision risks
- ⌚ Just in-time Collision Avoidance :
 - Can be used for imminent collisions (<48h)
- ⌚ Applicable to non-maneuvering objects in orbit
- ⌚ Sounding rocket launch from the ground or air-launched
- ⌚ Avoids creating thousands of debris
- ⌚ Reduction in satellites required maneuvers



Invention synthesis

The invention consists in using a solid propellant thruster located on top of a sounding rocket launched towards the object to be deflected. The solid propellant thruster is ignited at the trajectory culmination point to generate a dense cloud with the combustion by products while it is working. The objects to be deflected are flying through this artificial atmosphere that creates a drag force altering the objects trajectory and thus reducing the collision risk.

Commercial benefits

- Guarantees a space vehicle survivability
- Avoid making maneuvers for an operational satellite

Potential applications

- All space debris

Patented invention - under license.