

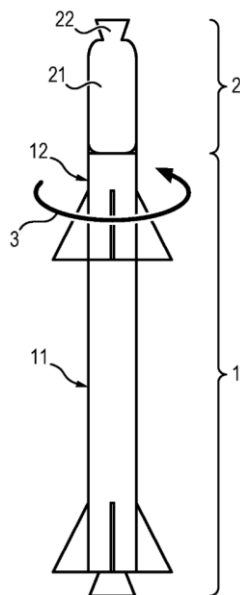
## ON A PROCESS AND METHOD FOR DEFLECTING SPACE DEBRIS

### 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.



(1) Sounding rocket  
(2) Thruster  
(11, 12) Rocket stages  
(22) Nozzle

### Commercial benefits

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

### Potential applications

- All space debris

*Patented invention - under license.*