



FOLDABLE/DEPLOYABLE DEVICE COMPRISING AT LEAST FOUR LEFT SECTORS CONNECTED BY HINGES

Avantages technologiques

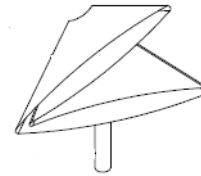
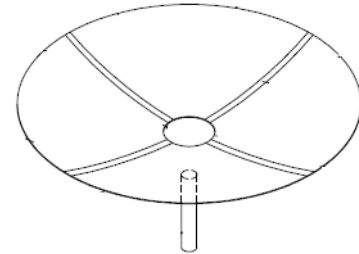
Device more compact than other known foldable and self-deploying devices, more lightweight than other known devices

«One-shot» deployment without actuator

Spontaneous locking in deployed position, without locking mechanism

Deployment without actuator

Excellent geometry deployed using lobe moulding



Invention overview

The invention concerns an ultra-light and compact foldable/deployable structure that can take the shape of a 3D surface that may or may not be adjusted, comprising at least four central sectors each extending from a central section. The elasticity of these thin metal or composite sectors and the potential energy stored during folding render the structure self-deploying.

Commercial benefits

Cost of manufacturing less than the cost of manufacturing other known devices.

Potential applications

A device of this kind can form the reflector of an antenna, a solar array, a space sunshield, a reflective surface of a solar mirror.

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