

Umbrella based duality module for future space technology

Seeking parties interested in licensing and commercializing of technology.

Applications:

- Space rovers and other extra-terrestrial spacecrafts, to power them as well as convey signals from and to the space stations.

Technology Description:

The invention is an integrated module of solar panel and antenna on an umbrella as an inflatable solar antenna module. Thin film flexible solar cells or pellet type solar patches are coated on the canopy, transmitter/receiver antenna is fixed on the apex, micro strip antennae would be fabricated on the arm support string rods, and the umbrella ribs and strings would form the circuitry and network.

Advantages of the Technology:

- The overall setup could be mounted on the rocket along with pay loads as a smallish module and could be inflated to its original size in the space.

Development Status:

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Technology Transfer from the institute:

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