

## Licensing opportunity

### Deployable radio antenna

#### Overview

This technology provides a resilient linear antenna that deploys from a rolled configuration. Carbon fibre is used to provide a resilient antenna while minimising the rolled package size.

#### Key benefits

- Enables a longer radio antenna to be deployed from a given package size or weight (or reduces the stowed size and weight for a given antenna length).
- The use of a storable tubular extendible member (STEM) structure enables the antenna to be rolled into a very compact storage configuration, yet relatively rigid when deployed.

#### Applications

- Portable radio equipment.
- Satellites, especially cubesats.

#### IP status

Abstract: A radio comprising a radio electronics module and an antenna comprising at least one active component that is elongate in a deployed configuration to convert radio signals to or from electrical signals, the active component is substantially comprised of an electrically conductive Storable Tubular Extendible Member (STEM) structure that is spiral in a stowed configuration, and elongate with an arcuate cross section in the deployed configuration, characterized in that the STEM structure is substantially comprised of a carbon fibre material electrically coupled to the electronics module so as to perform the function of the active component.

Country	Status	Application no	Filing date
GB	Filed	GB1415303.5	29 Aug 2014

#### Commercial opportunity

Successful exploitation of this intellectual property will address the requirement for a compactly stowed antenna for portable deployment or satellite deployment.

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