OMNI ANTENNA EMISSION DEVICE

Innovative system offering both pure circular polarisation transmission and omnidirectional coverage

**Technological benefits**

An innovative, high-performance technology  
Very easy to build  
Very pure polarisation  
Does not require a power supply coupler  
Co-polarisation diagram independent from bearing structure

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**Invention overview**

One-antenna device with multiple wires distributed evenly in helix shape around a single cylindrical generator.  
These wires are supplied by a radiofrequency signal providing an equi-phase and equi-amplitude power supply.

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**Potential applications**

Aeronautics  
Balloons  
Land vehicles

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**Commercial benefits**

Significant savings without requiring high technology  
Very low production cost  
Reproducible performances  
Very compact (for this kind of antenna)

**TRL : 4 (2010)**

Invention developed by CNES