



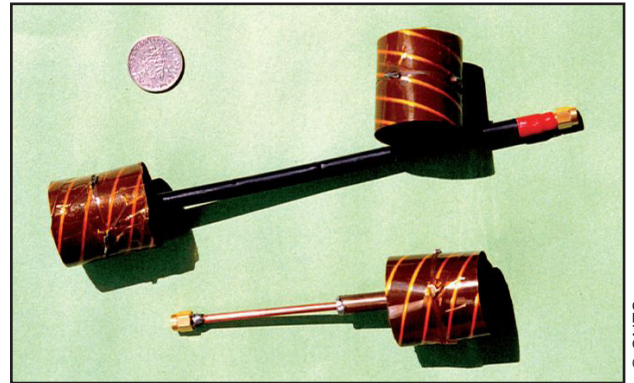
OMNI ANTENNA EMISSION DEVICE

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

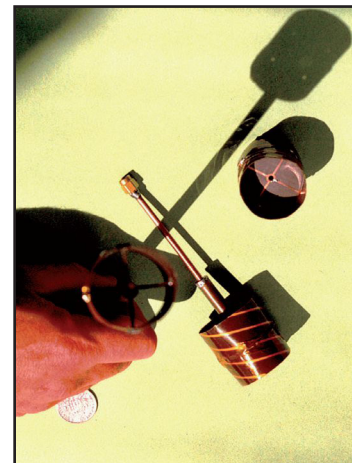


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S-band prototype (2,200 MHz)

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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View of power supply circuit (equi-amplitude – equi-phase)

Potential applications

- Aeronautics
- Balloons
- Land vehicles

TRL : 4 (2010)

Invention developed by CNES

Commercial benefits

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