



SYSTEM AND SET-UP FOR THE MEASUREMENT OF AN ANTENNA RADIATING DIAGRAM COMPONENTS

Technological advantages

Simpler :

- Fewer constraints in the polarization quality of the analysis antenna

Wide applicability :

- All types of antennas to be tested, passive or not

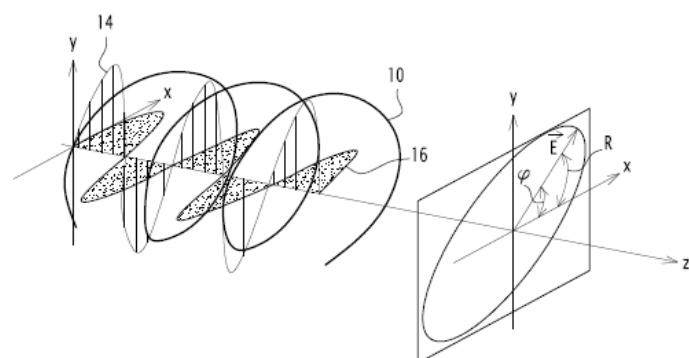
More efficient :

- System more accurate than present systems
- Accurate measurements of the main/crossed components

Invention synthesis

The invention's goal is to characterize the polarization quality of antennas so to obtain a refined link assessment between two emitters, and thus to optimize the communication efficiency (for emission and reception).

The solution is based on the radiofrequency signal measurement with a rotation of the analysis antenna (angular orientation). The system is accurate and delivers a measurement method for the main and/or crossed components for an antenna radiating diagram to be tested and polarized circularly.



Schematic representation for the propagation of the electric field vector E

(10) Electromagnetic wave

(14,16) Components of the radiated field

Commercial benefits

- Economical : fewer constraints, cost reduction, simple to manufacture

Potential applications

- Radiofrequency antennas (satellite antennas ...)

Patented invention - under license.