



# OPERATION OF COMMUNICATING OBJECT SIGNALS

*An observation beacon for an object, observation system and method for transmitting associated observation data*

## Technological benefits

### More efficient technology

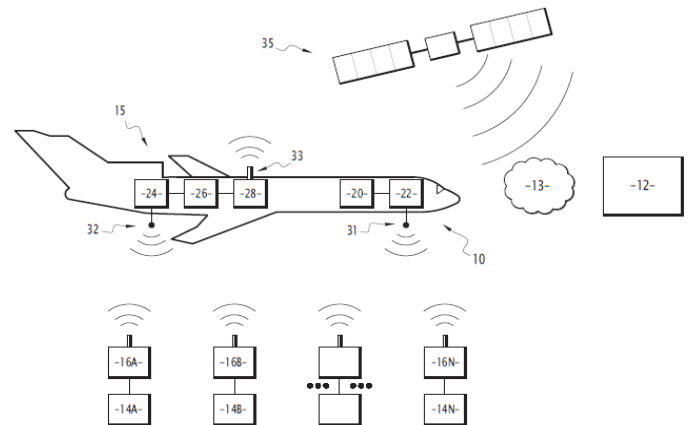
- The architecture makes it possible to take into account more tags without difficulties related to the large number of signals received
- The signal-to-noise ratio is more interesting

### An adaptable architecture

- The beacon emits a certain power according to the power of the transmission request signal

### The object can know where it is

- The signal emitted by the aircraft allows the beacon to locate itself roughly
- Allows the adaptation of the communication frequency according to the geographical area



## Invention overview

The invention relates to an observation beacon for a system for observing a plurality of objects arranged in distinct geographical locations. This tag emits the collected data upon receipt of the ADS-B signal emitted by the aircraft which is supposed to collect the data.

## Potential applications

### Agriculture

- Study of different ground characteristics (humidity, temperature)

### Maritime

- Study of the sea by means of boats

### Zoology

- Study of species at risk of extinction

### Indoor

- Water meter / electricity meter reading

## Commercial benefits

### Energy saving

- Better use of the energy provided for the feeding of autonomous beacons (IoT)

### Less expensive equipment

- Less expensive tag because need to emit less far

TRL : 7-8

33% CNES, ATMOSPHERE, SIGFOX