

Intelligent Tracking Method (Anti-Jamming)

University of Chile has generated a path traceability method, which maintains communication regardless of the effect of signal inhibitors.

THE CHALLENGE

Nowadays, it is usual to track vehicles such as the ones of transportation of values, transportation of personnel, among others through devices (GPS) and/or data communication channels, such as gsm/gprs, and/or other channels. These systems constantly send and receive information from the central, either for its organization, security, among other purposes. However, many times they are vulnerable to signal inhibitors (Jammers), and therefore, to hijacking and robbery. As a solution, the “Intelligent Tracking” technology is born. This means that regardless of whether the tracking system interfered by inhibitors, this method allows tracing the trajectory of the transport vehicle through stealthy tracking, generating a range of action for its detection and recovery.

THE TECHNOLOGY

It consists of a path traceability system of at least one means of transportation, which maintains communication regardless of the effects of signal inhibitors. For this, at least one removable (autonomous) communication system will be used, which is located inside a container and that will be expelled from the transport vehicles through an ejection system. A signal inhibition detector will be responsible for communicating with the ejection system to generate the expulsion of the removable communication system. These removable communication systems will be tracked, allowing the trajectory of the transport vehicle to be traced.

STAGE OF DEVELOPMENT

- Conceptual study.
- Laboratory tests.

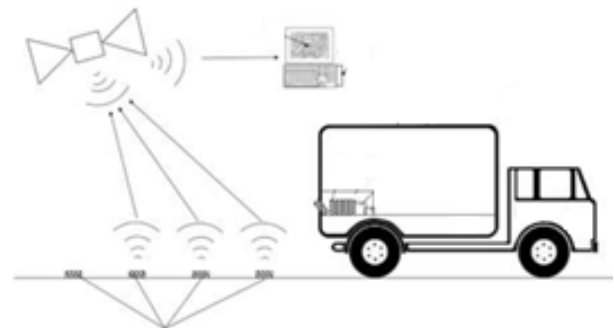
COMPETITIVE ADVANTAGES

- It allows the tracking of a vehicle’s trajectory, even if a signal inhibitor affects it.

- It allows you to track stealthily against thefts and/or hijacking of vehicles, generating a range of action for detection and recovery.



Trajectory traceability example with three capsules activated.



Schematic of the method of operation.

APPLICATIONS

- Useful for monitoring in a situation of stealing and/or kidnapping of stock transport vehicles.
- Monitoring of vehicles that require special surveillance such as government vehicles, transportation of sensitive personnel (Gendarmerie, Police, Military, etc...).

OPORTUNITY

Available for **out-licensing** and collaboration in scaling and industrial assembly.

INTELLECTUAL PROPERTY/REFERENCES

Patent Applications CL 3490-2017 and PCT/IB/2018/060691.