

# AUTHENTICATION SYSTEM FOR SPECIFIC SPECTRUM

**P** PATENTED TECHNOLOGY



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## ABSTRACT

The research group has developed a new system of authentication for specific spectrum in document security and authentication of all products type (tickets, passport, drugs, credit cards, clothes, handbags, belts, shoes, glasses...).

It is characterized for a non limitations of existing anti-piracy systems in a way very simple.

This will make use of a new strategy of marking and recognition.

## TECHNOLOGY ADVANTAGES AND INNOVATIVE ASPECTS

### ADVANTAGES:

- The marking is done at the microscopic resolution and capable of resolving its wide spectrum of Armstrong, allowing reduce the chance of detecting the mark by the forger in order of one billion.
- The optical increased use resolutions that can obtain the order of particles per million, making it possible to expose and make a minimum area of the same, and in a very tenuous.
- The difficulty of obtaining deuterium in a illegal market, coupled with the difficulty to distinguish it from conventional hydrogen and wide area given its application to analyze microscopic, mean that these brands are virtually undetectable without information from the manufacturer, who also can make each document / object in a different way.

### INNOVATIVE ASPECTS:

It presents a new strategy to identify the authenticity of products and / or documents.

Instead of marking the objects that are intended to protect with marks clearly visible, are marking these objects in a timely manner, so that only the manufacturer knows where to look for marks (and the latter providing the information to each customer in a timely manner). It gets so each product can be marked in different ways, so that counterfeiting is impossible, since the anti-piracy measures only known manufacturer.

## MARKET APPLICATIONS

This new authentication system can be applied to any type of product and / or document, by far surpassing the limitations of the methods used at present. Used, for example, to prevent counterfeiting of:

- Paper money.
- Passports.
- Drugs (vaccines, viagra, etc.).

- Credit cards.
- Fashion (brand clothing and accessories).
- Shoes.
- Glasses.
- Other...

Using this technology, various business sectors can benefit from the advantages of this system.

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#### COLLABORATION SOUGHT

The research group seeks companies interested in acquiring the technology for exploitation. To that, he was prepared to sign any of the various forms of technology transfer (license, assignment, etc.).

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