

Description

Technical field

[0001] The present invention relates to an anti-theft device for luxury goods, in particular for wristwatches.

Prior art

[0002] The need to trace everyday objects has long been known, as they can be lost or stolen from the owner.

[0003] The need of comfortably tracing everyday objects exists particularly with regard to luxury goods of high economic value, such as wristwatches or high fashion bags.

[0004] To this end, devices have been developed that permit to locate everyday objects based on Wireless technologies such as Bluetooth technology or using the global positioning system (GPS).

[0005] For example, locator devices are known for finding the location of the object of interest via the satellite system and transmitting it to other devices via SMS or via GSM/UMTS network.

[0006] However, such devices are not associated with luxury goods such as wristwatches, as they are bulky and unsightly.

[0007] In particular, the most common problem detected for this type of device is the size of the power supply battery, since the GPS system, known for its high energy consumption, requires bulky volume charging batteries, with a capacity of at least 1000 mAh in order to be able to remain active for a whole day.

[0008] Smartwatches equipped with a GPS system capable of providing the geo-location of the user are also known, generally used to track the movements of a user (for example to keep track of the distances covered during a training) or to track people who can easily get lost (children, elderly people with Alzheimer's disease). In this type of device, the GPS system is kept active by charging the device by a power supply.

[0009] There are also Bluetooth locators on the market, which are generally cheaper and less bulky than GPS locators, but have a more limited range (about 20-50 meters). Such devices are capable of signaling the removal of an object or a person beyond this predetermined range of action. In this case, the existing problem is the limited area covered by the locator, which would make it impossible to trace a thief who had illegally stolen the object and had gone beyond the given range of action.

Disclosure

[0010] The present invention is aiming at solving the foregoing problems, by devising a security device for luxury goods with a wide range of action, capable of providing the position of the object of interest in the event of loss or theft.

[0011] It is a further object of the present invention to

provide a security device for luxury goods associable with said luxury goods without compromising on their aesthetics and functionality.

[0012] Another object of the present invention is to provide a security device for luxury goods which is compact in size, adapted to be easily placed within the object of interest.

[0013] A further object of the invention is to provide a security device for luxury goods of simple construction and functional design, which is certain in operation, relatively inexpensive and of versatile use.

[0014] The foregoing objects are achieved, according to the present invention, by the wristwatch according to claim 1 and by the security device for luxury goods according to claim 5.

[0015] Said wristwatch comprises a case containing mechanical means which is able to wind the watch and maintain the operation thereof.

[0016] Said wristwatch also includes an indicator dial on which references are inserted to allow the reading of the time.

[0017] Shaped as extensions of said case are a plurality of fins, suitable for securing a strap to said case.

[0018] Said strap, secured to said flaps by means of appropriate secure means, is provided with a closure portion adapted to fasten said strap to the wrist in a safe position.

[0019] Said case contains a receptacle immovably associated with said wristwatch at said case or said closure portion of said strap.

[0020] Said receptacle contains a location module able to receive information on the position of said wristwatch to which it is associated and to transmit it to a second device such as a smartphone or a computer.

[0021] Preferably said wristwatch is of the analog type.

[0022] Said wristwatch may be of the quartz type equipped with a battery.

[0023] Preferably said wristwatch is of the mechanical type with automatic winding.

[0024] Said security device for luxury goods includes a receptacle adapted to be fixedly associated with an object of interest, in particular with luxury goods such as said wristwatch or a high fashion bag.

[0025] Preferably said receptacle is defined inside a case of said wristwatch.

[0026] Alternatively, said receptacle is defined within the closure portion of the strap of said wristwatch.

[0027] Said receptacle, when associated with said high fashion bag, is defined internally by the body or handles of said high fashion bag.

[0028] Advantageously, said receptacle can have any suitable shape to be placed or defined within the luxury asset of interest.

[0029] Said receptacle can be made of different materials such as stainless steel or plastic.

[0030] Advantageously, said device is compact in size so that it can be placed within a luxury item of interest.

[0031] Said receptacle contains a location module,

adapted to receive information on the position of an object with which it is associated and to transmit it to a second device such as a smartphone or a computer.

[0032] Preferably said location module is a GPS (Global Positioning System) module.

[0033] Said device is adapted to be connected to a battery of a wristwatch in such a way as to power said location module.

[0034] Preferably, said device is powered by mechanical movement in a wristwatch with automatic winding.

[0035] According to an aspect of the invention, said device comprises a battery which is suitable for powering said location module and housed inside a casing.

[0036] According to said aspect of the invention, said device is self-contained with respect to the energy supply, therefore it can be inserted inside a luxury item that does not provide its own form of energy supply, such as a bag.

[0037] Said device performs, by means of said location module, an anti-theft function, tracing a lost or stolen object even at great distances, communicating in a known manner with devices such as computers or smartphones.

Description of drawings

[0038] The details of the invention will become more apparent from the detailed description of a preferred embodiment of the security device for luxury goods according to the invention, illustrated as a non-limitative example in the accompanying drawings, wherein:

[0039] Figure 1 shows a perspective view of the lower part of a wristwatch within which the device is placed.

Description of embodiments of the invention

[0040] With particular reference to these figures, the wristwatch according to the present invention has been indicated in whole with the reference character 1.

[0041] The wristwatch comprises a case 2 containing mechanical means capable of winding the watch and maintain the operation thereof.

[0042] The wristwatch also includes an indicator dial on which references are inserted to allow the reading of the time.

[0043] Shaped as extensions of the case 2 are a plurality of fins 3 adapted to connect a strap 4 to the case 2.

[0044] The strap 4, connected to said fins 3 through suitable connection means, is provided with a closure portion suitable for fastening said strap to the wrist in a safe position.

[0045] The case 2 contains a receptacle 5 immovably associated with the wristwatch 1 at the case 2 or the closing portion of the strap 4.

[0046] The receptacle 5 contains a location module 6 suitable for receiving information on the position of the wristwatch 1 with which it is associated and to transmit it to a second device such as a smartphone or a computer.

[0047] Preferably the wristwatch 1 is of the analog type.

[0048] In an embodiment the wristwatch 1 is of the quartz type, equipped with a battery.

[0049] In a preferred embodiment the wristwatch 1 is of the self-winding mechanical type.

5 **[0050]** The security device for luxury goods 100 according to the present invention comprises a receptacle 5 adapted to be immovably associated with an object of interest, in particular with luxury goods such as a wristwatch or a high fashion bag.

10 **[0051]** In a preferred embodiment the receptacle 5 is defined within the case 2 of a wristwatch 1.

[0052] Alternatively, the receptacle 5 is defined within the closure portion of the strap 4 of said wristwatch 1.

15 **[0053]** The 5 receptacle is defined internally by the body or handles of the high fashion bag, when associated with a high fashion bag.

[0054] The receptacle 5 may have any suitable shape to be placed or defined within the luxury good of interest.

20 **[0055]** The receptacle 5 can be made of different materials such as stainless steel or plastic.

[0056] The device 100 is compact in size so that it can be placed within the luxury good of interest.

25 **[0057]** The receptacle 2 contains a location module 5, adapted to receive information on the position of the object with which it is associated and to transmit it to a second device such as a smartphone or a computer.

[0058] Preferably, the location module 5 is a GPS (Global Positioning System) module.

30 **[0059]** In an embodiment the device 1 is connected to the battery of a wristwatch so as to power the location module 3.

[0060] In a preferred embodiment, said device 100 is powered by mechanical movement in a self-winding wristwatch.

35 **[0061]** In a second embodiment the device 1 comprises a battery which is adapted to power the location module 5 and housed within a casing.

40 **[0062]** According to said embodiment, the device 2 is self-contained with respect to the energy supply, therefore it can be inserted into a luxury good that does not provide its own form of energy supply, such as a bag.

45 **[0063]** The device 1 performs, through the location module 5, an anti-theft function, by tracing even at great distances lost or stolen object, communicating in a known manner with devices such as computers or smartphones.

[0064] The device described by way of example is susceptible of numerous changes and variations depending on the different needs.

50 **[0065]** In the practical embodiment of the invention, the materials used, as well as the shape and the dimensions, may be modified depending on needs.

[0066] Should the technical features mentioned in any claim be followed by reference signs, such reference signs were included strictly with the aim of enhancing the understanding of the claims and hence they shall not be deemed restrictive in any manner whatsoever on the scope of each element identified for exemplifying purposes by such reference signs.

Claims**1.** A wristwatch comprising:

a case (2) containing mechanical means for winding the watch and maintaining the operation thereof;

an indicator dial on which references are inserted to allow the reading of the time;

a plurality of fins (3), shaped as extensions of said case (2), suitable for securing a strap (4) to said case (2);

a strap (4), connected to said fins (3) through suitable connection means, provided with a closing portion adapted to fasten said strap (4) to the wrist in a safe position;

characterized in that said case (2) contains a receptacle (5) immovably associated with said wristwatch (1) at said case (2) or said closing portion of said strap (4) containing a location module (6) adapted to receive information on the position of said wristwatch (1) to which it is associated and to transmit it to a second device such as a smartphone or a computer.

2. The wristwatch of claim 1, wherein it is of the analog type.**3.** A wristwatch of any one of claims 1 or 2, wherein it is of the quartz type, equipped with a battery.**4.** A wristwatch of any one of claims 1 or 2, wherein it is of the mechanical type with automatic winding.**5.** A security device for luxury goods including:

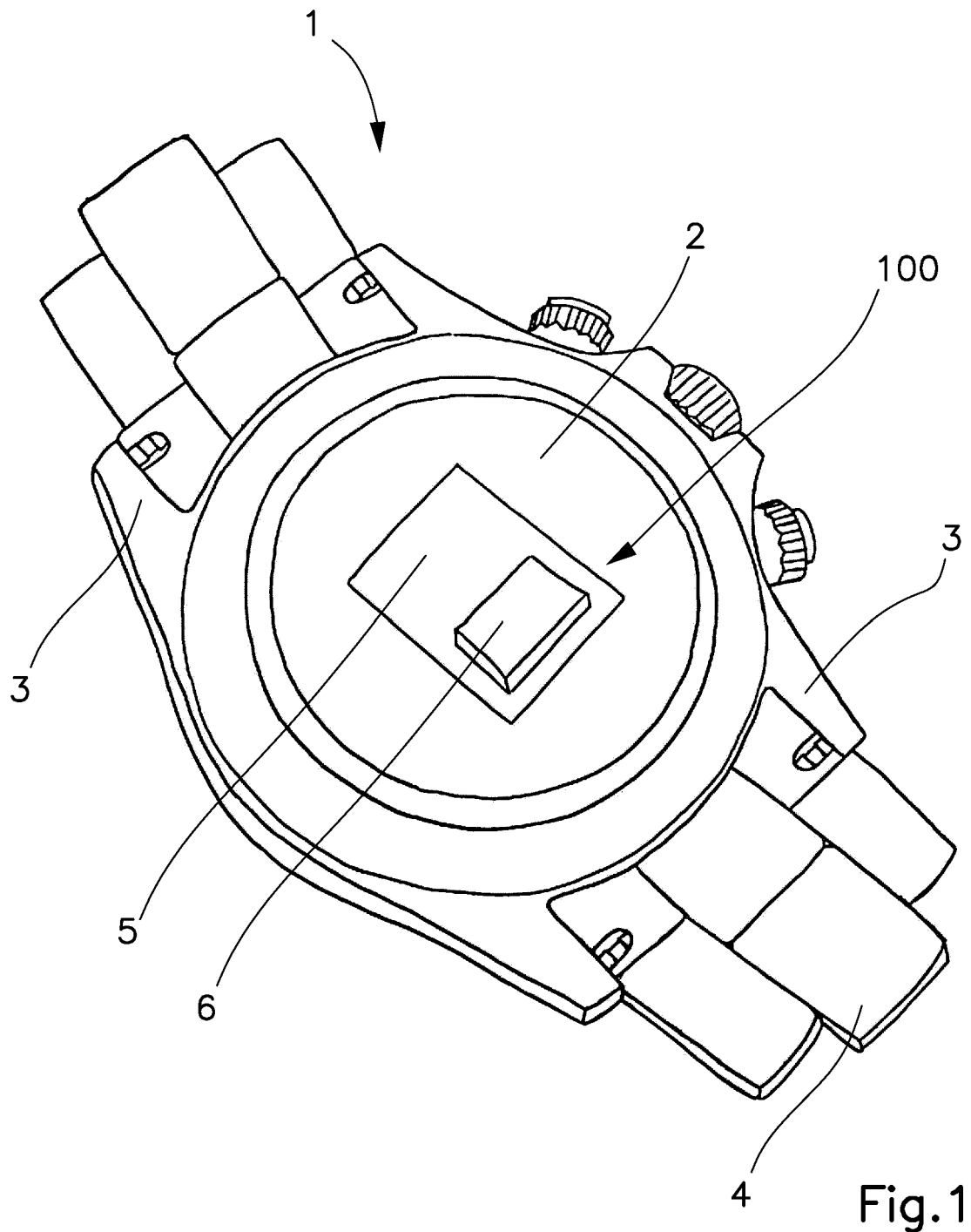
a receptacle (5) capable of being permanently associated with an object of interest, in particular with luxury goods such as a wristwatch or a high fashion bag;

a location module (6) contained within said receiver (5) adapted to receive information on the position of said object to which it is associated and to transmit it to a second device such as a smartphone or computer.

6. The device of claim 5, wherein it is associated with one said luxury good, in particular with a wristwatch (1).**7.** The device of claim 6, wherein said wristwatch (1) is of the analogue, mechanic type with automatic winding.**8.** The device of claim 6, wherein said receptacle (5) is defined inside a case (2) of said wristwatch (1).**9.** The device of claim 6, wherein said receptacle (5) is

defined inside the closure portion of the strap (4) of said wristwatch (1).

10. The device of claim 5, wherein said receptacle (6) is defined within a body or handles of said high fashion bag.**11.** A device of claim 5, wherein said location module (6) is a GPS (Global Positioning System) module.**12.** Device according to one of the preceding claims, wherein it is compact in size so that it can be placed inside a luxury good of interest.**13.** A device according to any one of the preceding claims, wherein it is connected to the battery of said wristwatch (1) in such a way as to power said location module (6).**14.** A device according to one of the preceding claims, wherein it is powered by mechanical movement in a self-winding wristwatch.**15.** A device of any one of the preceding claims wherein said device (100) performs, by means of said location module (6), an anti-theft function, enabling an object, inside which it is located, to be traced even at great distances, communicating in a known manner with devices such as computers or smartphones.





EUROPEAN SEARCH REPORT

Application Number

EP 22 20 2994

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EPO FORM 1503 03.82 (P04C01)

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	CN 205 671 715 U (DONGGUAN HAIWEI TEXTILE HANDBAG TECH CO LTD) 9 November 2016 (2016-11-09) * paragraphs [0001] - [0004] * * paragraphs [0015], [0016] * * figures 1,2 * -----	5, 6, 10, 11, 15	INV. G08B21/24
X	CN 205 563 104 U (YANG HUIPING) 7 September 2016 (2016-09-07) * paragraph [0009] * * paragraph [0017] * * paragraph [0024] * * figures 1,2 * -----	1-9, 11-13, 15	
A	CN 203 164 614 U (CHENG MING) 28 August 2013 (2013-08-28) * paragraphs [0018], [0019] * * paragraph [0021] * * figure 1 * -----	1-15	
X	US 2014/099972 A1 (WEISS ANDREW [US]) 10 April 2014 (2014-04-10) * paragraph [0004] * * paragraph [0006] * * paragraph [0032] - paragraph [0036] * * paragraph [0039] * * figures 2,3 * -----	1-15	TECHNICAL FIELDS SEARCHED (IPC) G08B
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 20 January 2023	Examiner Meister, Mark
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 22 20 2994

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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20-01-2023

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