

(19)



(11)

EP 3 785 567 A1

(12)

EUROPEAN PATENT APPLICATION
published in accordance with Art. 153(4) EPC

(43) Date of publication:

03.03.2021 Bulletin 2021/09

(51) Int Cl.:

A45F 5/02^(2006.01) A45C 13/38^(2006.01)

(21) Application number: **18916075.7**

(86) International application number:

PCT/ES2018/070823

(22) Date of filing: **21.12.2018**

(87) International publication number:

WO 2019/207179 (31.10.2019 Gazette 2019/44)

(84) Designated Contracting States:

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated Extension States:

BA ME

Designated Validation States:

KH MA MD TN

- **Fuentes Camuesco, Francisco Javier**
11201 Algeciras (ES)

(72) Inventors:

- **Torrejón Prian, José Manuel**
11100 San Fernando (ES)
- **Fuentes Camuesco, Francisco Javier**
11201 Algeciras (ES)

(30) Priority: **26.04.2018 ES 201830600 U**

(74) Representative: **González-Mogena González, Inigo**

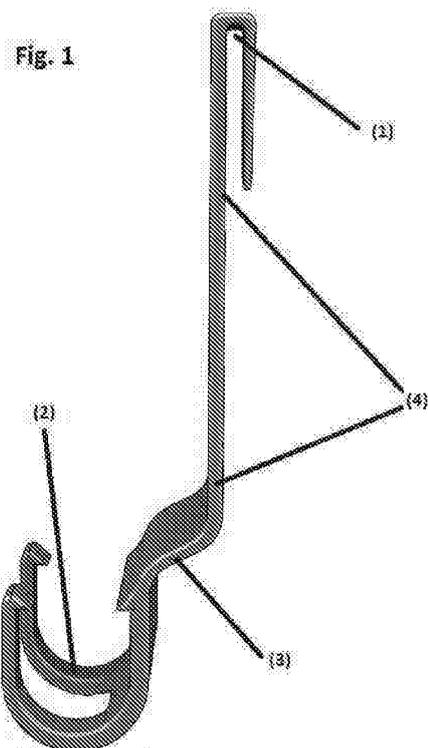
(71) Applicants:

- **Torrejón Prian, José Manuel**
11100 San Fernando (ES)

Patentes Y Marcas
Bravo Murillo n°373, 3ª
28020 Madrid (ES)

(54) **SUITCASE HOOK**

(57) Suitcase hook, which allows it to be fitted to the belt, trousers or clothing of a user, and which is hooked to the handles of a suitcase on its bottom, ensuring that the suitcase can be dragged without any greater effort than walking, which is constituted by a central piece that at its top has a main U-shaped hook with which the user is hooked; and has at its bottom a central curved part and at least one secondary U-shaped hook with which it is hooked to the suitcase..



EP 3 785 567 A1

Description

PURPOSE OF THE INVENTION

[0001] The invented device is designed to be coupled to the belt, trousers or clothing on its top and to the handles of the suitcases on its bottom, being able to be dragged without any greater effort than walking, in such a way that through the invented device it is possible to transport the suitcases, for travel, for school, etc., leaving the hands of the people who transport them free.

[0002] The field of application of the invention falls within the technical field of objects used in order to improve the mobility of people.

BEHIND THE INVENTION

[0003] There are numerous problems when it comes to keeping your hands occupied to carry your suitcases, due to the large amount of things that people want to transport and in turn actions that they want to perform, and even their use by people with reduced mobility in their hands or arms. Travel bags are commonly used by millions of users throughout the world and have been used for many years, this use being expanded exponentially in recent decades. Becoming very popular, especially through the number of trips that can be made in a single day in the world in which we live. For all these reasons, we can say that travel bags are an object commonly used to transport small quantities of goods (clothes, personal effects, documentation, computers) and widely used worldwide.

[0004] This is why the suitcase hook goes one step further in the sector of the personal transport of objects, since with the suitcase hook it is possible to carry out more than one action at a time on short or long journeys carried out with a suitcase.

[0005] That is why, with the suitcase hook, we go one step further in the field of objects used in order to improve the mobility of people, as in particular in their ways of transporting suitcases, different from what has been known to date.

[0006] Below is a detailed description of the invention that completes these general ideas introduced in this point.

DESCRIPTION OF INVENTION

[0007] The invented device is presented as a flat piece on its front divided into two parts so that it can be adapted on its internal U-shaped part to a belt, trousers or clothing on the back of the people, and that it provides at the back of this two U-shaped hooks, so that it can hold the handle of the travel suitcases, school, etc.

[0008] The device invented as a whole is coupled to the belt on the back of the belt and to the handle of the suitcases on the other precisely, which are detailed below.

[0009] To complete the description that is being made and in order to help a better understanding of the characteristics of the invention, a set of drawings is attached as an integral part thereof in which, by way of illustration and not limitation, the following has been represented:

Figure 1 is a schematic representation of the suitcase hook device.

Figure 2 is a perspective view of the suitcase hook, depicted in Figure 1

Figure 3 is a perspective view of the suitcase hook, depicted in Figure 1.

Figure 4 is a front view of the bottom of the suitcase hook, schematically depicted in Figure 1.

Figure 5 is a side view of how the suitcase hook fits into the suitcase.

Figure 6 is a side view of how the suitcase hook looks so that you can drag it.

DESCRIPTION OF THE DRAWINGS

[0010] As can be seen in Figure 1, the suitcase hook is composed of a main hook (1), a secondary hook (2) and a central curved part (3), such that the main hook (1) comprises the area of coupling to a belt, trousers or clothing.

[0011] Further as depicted in Figure 1, the secondary hook 2 holds the suitcase handles.

[0012] As can be seen in Figure 1, the high side face of the central piece (4) is presented where it is possible to observe on the one hand an inverted U of the main hook (1) that is the one that fits into a belt, trousers, or clothing, and on the other central part (4) a distance that allows it to rest on the buttocks of people and thus have a sufficient distance so that it prevents it from hitting the back of the heels of people with the front of the suitcase they drag, as well as a curved part (3) that allows, once the piece is used and when it is stored, that it can be fitted upside down in the handle of the suitcase and is flat with respect to it and thus does not occupy a place inside it, its storage system being very comfortable, and on the bottom, a secondary U-shaped hook (2), where the handles of the suitcases (M) stop falling and that it has small protrusions that also prevent the handle of the suitcase from being removed during transport.

[0013] As can be seen in Figure 2, it is presented at the front, where two main U-shaped hooks (1) come out, which is where they are coupled to the belt, trousers or clothing.

[0014] As can be seen in Figure 3, it is presented at the back, where two U-shaped secondary hooks (2) come out, which in turn allow the transport of the handle suitcases with a pull bar like two, as well as the protru-

sions that prevent the suitcases from leaving without the person taking them out.

[0015] As can be seen in Figure 4, it is presented at the bottom where two U-shaped hooks come out, which has also taken into account that separation between them so that it also leaves the handles of the suitcases free and can be pressed both at the time of collection and its extension, making this action more comfortable.

[0016] As can be seen in Figure 5, it is a side view of how the suitcase hook fits into the suitcase (M).

[0017] Finally you can see Figure 6, which is a side view of how the suitcase hook fits into the suitcase (M).

DESCRIPTION OF A PREFERRED IMPLEMENTATION

[0018] We can see how in Figure 2, we have the piece on the front separated by the central U-shaped part so that it can be adapted to the belt, trousers or clothing. In Figure 3, we have the high side face of the piece where it is possible to observe on the one hand an inverted U that is the one that fits into a belt, trousers, or clothing, and on the other central part a distance that allows it to rest on the buttocks of people and thus have a sufficient distance so that it prevents it from hitting the back of the heels of people with the front of the suitcase they are pulling as well as a curvature that allows once the piece is used and when it is stored, that it can be fitted upside down in the handle of the suitcase and is flat with respect to it and thus does not occupy a place inside it, its storage system being very comfortable, and on the bottom, a U, where the handles of the suitcases stop falling and small protrusions that also prevent the handle of the suitcase from being removed during transport. In Figure 4, we have the lower face of the piece where two U-shaped hooks come out, which in turn allow the transport of the handle suitcases with a pull bar like two, as well as the protrusions that prevent the suitcases from leaving without the person taking them out.

[0019] Figure 5 shows the condition of the piece in the suitcase.

[0020] In Figure 6, we have the condition in which the extended piece is in the suitcase.

[0021] Described sufficiently in the foregoing the nature of the invention, as well as the description of how to carry it out, the following claims that constitute the essence of the aforementioned invention are specified below, taking into account that the terms that have been drafted in this specification must be taken in a broad and not limiting sense.

Claims

1. SUITCASE HOOK, which allows it to be fitted to a belt, trousers or clothing, and is hooked to the handles of a suitcase, which is **characterized in that** it is comprised of a central piece (4) that at its top has

a main U-shaped hook;and has at its bottom a central curved part and at least one secondary U-shaped hook (2).

2. SUITCASE HOOK, according to claim 1, **characterized in that** the secondary hooks (2) have protrusions.

10

15

20

25

30

35

40

45

50

55

Fig. 1

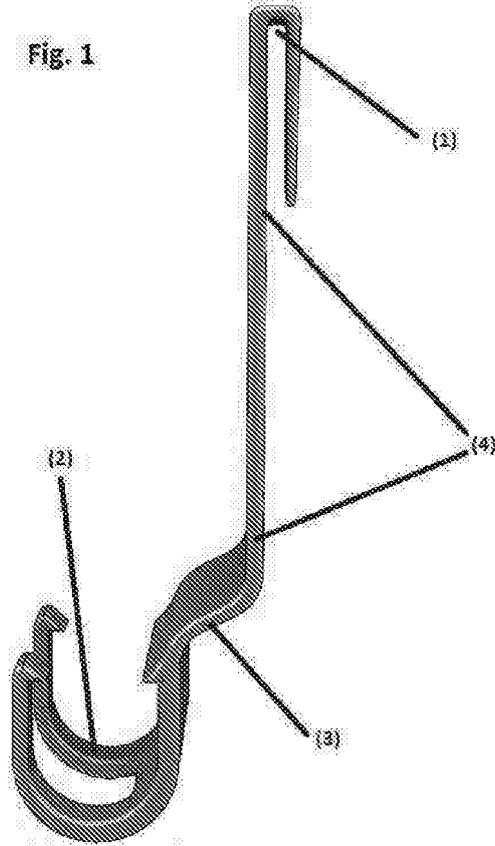


Fig. 2

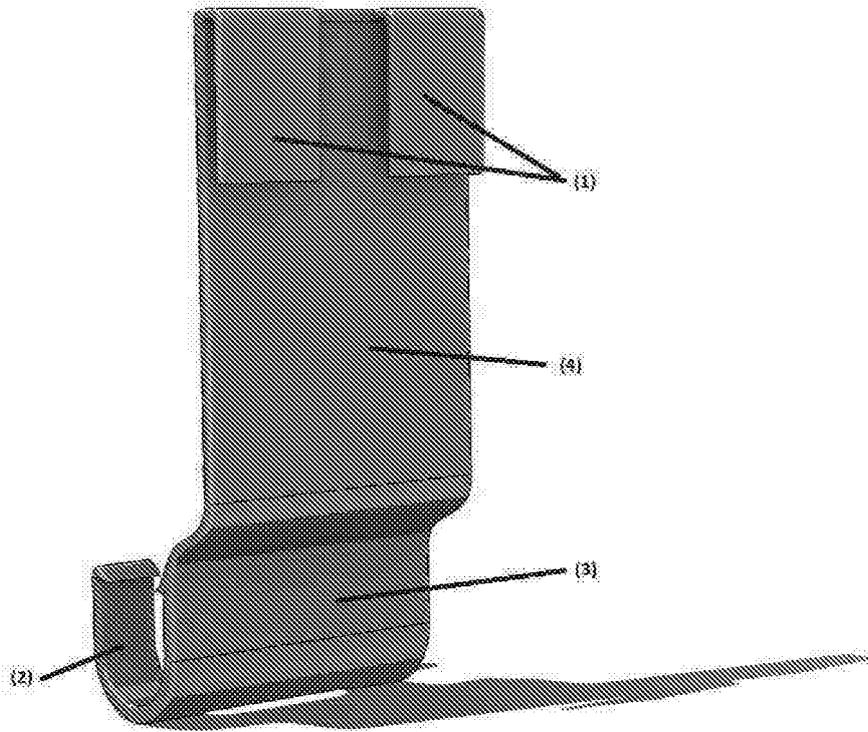


Fig. 3

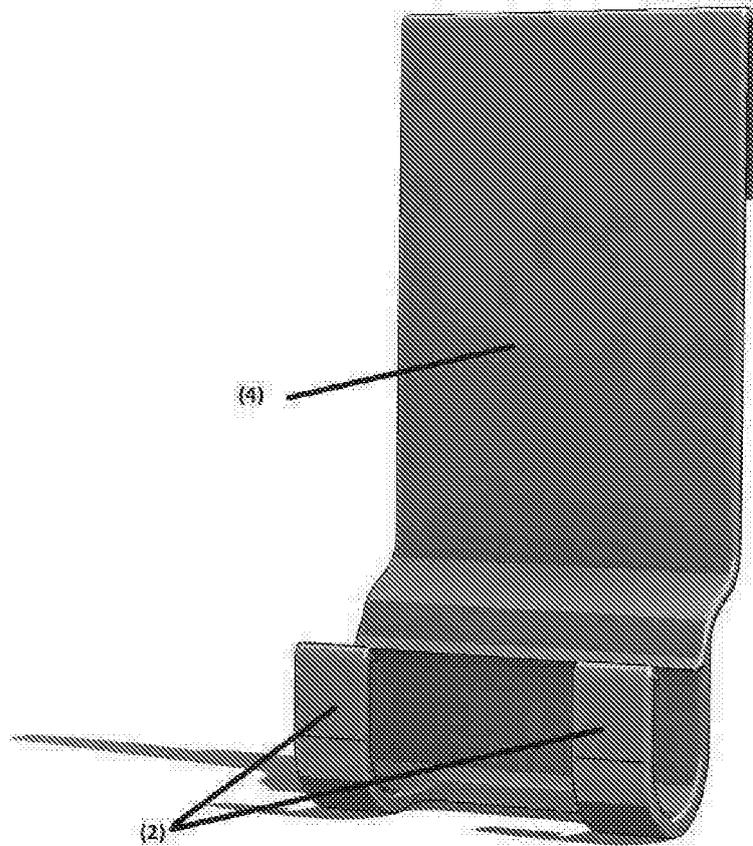


Fig. 4

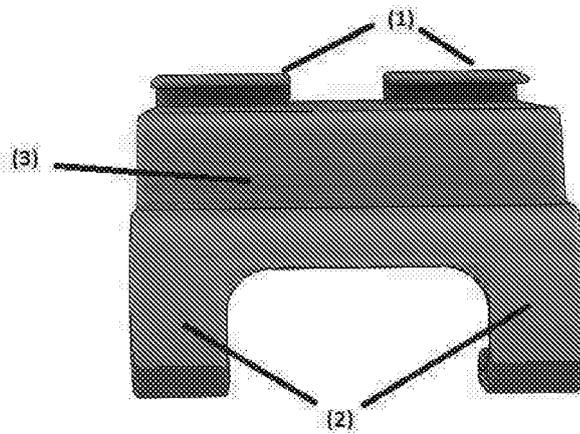


Fig. 5

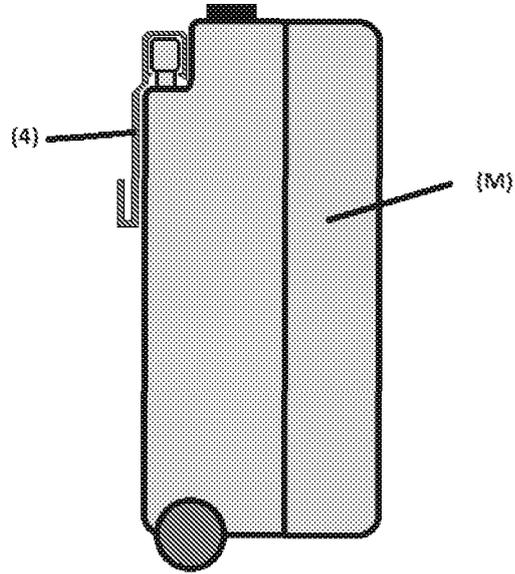
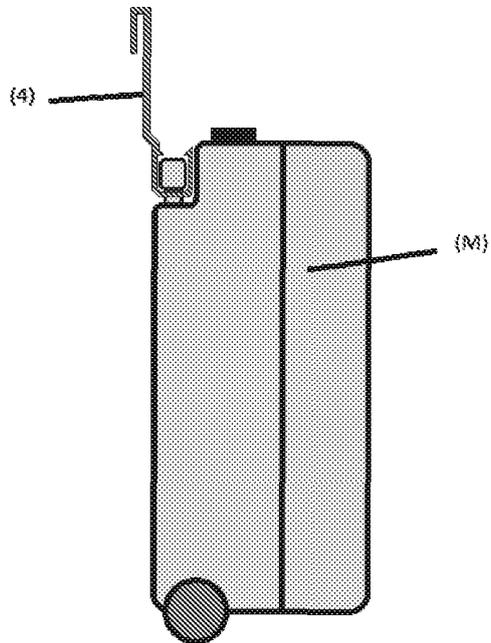


Fig. 6



INTERNATIONAL SEARCH REPORT

International application No.
PCT/ES2018/070823

A. CLASSIFICATION OF SUBJECT MATTER

A45F5/02 (2006.01)

A45C13/38 (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A45F, A45C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC, INVENES, WPI, INTERNET

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2004159756 A1 (ALBERTSON MARK S) 19/08/2004, the whole document.	1, 2
A	US 2015374089 A1 (LIAN ROBERT) 31/12/2015, the whole document.	1, 2
A	US 2006196901 A1 (BENK JOSHUA D) 07/09/2006, the whole document.	1, 2
A	US 2017332771 A1 (TANDESKI RAYMOND) 23/11/2017, the whole document.	1, 2
A	US 2011253757 A1 (MAY JR JAY R) 20/10/2011, the whole document.	1, 2
A	US 6062449 A (KAHN PETER P) 16/05/2000, the whole document.	1, 2

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance.	
"E" earlier document but published on or after the international filing date	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"O" document referring to an oral disclosure use, exhibition, or other means.	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other documents, such combination being obvious to a person skilled in the art
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

Date of the actual completion of the international search
14/05/2019Date of mailing of the international search report
(27/05/2019)

Name and mailing address of the ISA/

Authorized officer
J. Vizán ArroyoOFICINA ESPAÑOLA DE PATENTES Y MARCAS
Paseo de la Castellana, 75 - 28071 Madrid (España)
Facsimile No.: 91 349 53 04

Telephone No. 91 3498573

Form PCT/ISA/210 (second sheet) (January 2015)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/ES2018/070823

5

C (continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of documents, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6374577 B1 (VENTURA LEON P) 23/04/2002, the whole document.	1, 2

10

15

20

25

30

35

40

45

50

55

Form PCT/ISA/210 (continuation of second sheet) (January 2015)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/ES2018/070823

Information on patent family members

5
10
15
20
25
30
35
40
45
50
55

Patent document cited in the search report	Publication date	Patent family member(s)	Publication date
US2015374089 A1	31.12.2015	US2015374103 A1	31.12.2015
----- US2006196901 A1	----- 07.09.2006	----- NONE	----- -----
----- US2017332771 A1	----- 23.11.2017	----- NONE	----- -----
----- US2004159756 A1	----- 19.08.2004	----- NONE	----- -----
----- US2011253757 A1	----- 20.10.2011	----- NONE	----- -----
----- US6062449 A	----- 16.05.2000	----- USRE38035E E WO0059337 A1 AU1713100 A	----- 18.03.2003 12.10.2000 23.10.2000
----- US6374577 B1	----- 23.04.2002	----- NONE	----- -----
----- -----	----- -----	----- -----	----- -----