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(54) **A BACK ASSEMBLY WITH MASTER AND SLAVE BACKPACKS**

(57) The master backpack (1), has back and front faces and at least one shoulder strap (10) on its back face. The slave backpack (2), has back and front faces. Securing means, for detachably securing the bags (1, 2) together are provided and comprising invisible means for attracting them towards each other and applying them front face of the master backpack (1) to back face of the slave backpack (2). Locking means (63, 64) are provided for locking them together, so that each one of the backpacks (1, 2) may be used separately. The assembly is well suited for business travels.

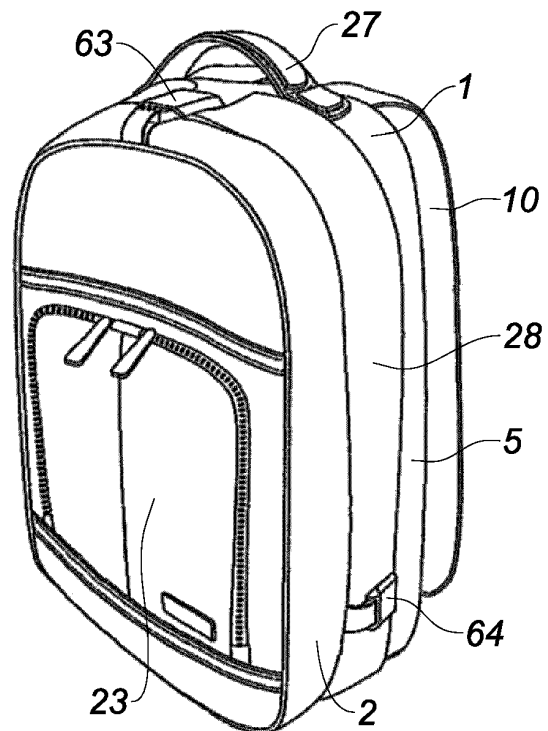


Fig. 6

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Description

[0001] The invention pertains to the field of travel bags, and more particularly bags for business travel.

[0002] When a businessman leaves on a trip and has to spend at least one night in a hotel, he needs to take along a number of things. He has to first take personal effects, such as sleepwear and a change of clothes, ties, perhaps a pair of shoes, toiletries, possibly pharmacy products and other personal items needed in daily life. He also needs to take along items that he needs for his business appointments and meetings, such as his computer, his cell phone, files and other documents.

[0003] Whether it involves a long trip or one that lasts only a day or two, businessmen now have a wide variety of travel containers: suitcases, bags, satchels, briefcases, "trolleys" to be pulled along, roller bags mounted on wheels, possibly with a retractable telescoping handle.

[0004] Today, backpacks are containers which are very much in style because they are very convenient. They are worn on the back with a fastening system comprising two straps to be placed over the shoulders.

[0005] But all these containers have one characteristic in common which is being catchalls into which it is difficult not to place the items to be carried all jumbled together. They therefore have the disadvantage, once at the destination, that these items are difficult to retrieve.

They also have the disadvantage, which is often major, of requiring that the user takes along, for these appointments and meetings, the entire container with all of the items that it contains, even if only the business objects are needed.

[0006] In short, they are unitary containers which are not practical.

[0007] The invention of the instant application aims to overcome these problems.

[0008] To this end, this invention relates to a back assembly of a master backpack, with back and front faces and at least one shoulder strap on its back face, of a slave backpack, with back and front faces, of securing means, for detachably securing them together and comprising invisible means for attracting them towards each other and applying them front face of the master backpack to back face of the slave backpack, and of locking means for locking them together, so that each one of the backpacks may be used separately.

[0009] The main advantage of the back assembly of the invention is therefore being able to have a main compartment for one's personal items and another for one's business items, which can be taken along separately, since they can be detached from each other.

[0010] Preferably, the invisible attracting means comprise a plurality of magnets, hidden under a lining in each one of the backpacks.

[0011] Advantageously, the slave backpack comprises a lateral back skirt protruding out of the back face of the slave backpack and arranged for covering part of the lateral sides of the master backpack, back skirt of the

slave backpack and lateral sides of the master backpack preferably comprising mutual securing means.

[0012] Still preferably, the locking means comprise buckles, advantageously, a top one and two side ones.

[0013] Preferably, each buckle comprises two parts, attached to the two master and slave backpacks, respectively, which are arranged for being prevented from moving apart from each other along a direction perpendicular to the faces of the backpacks thanks to a magnetic force, parallel to said faces, attracting them towards each other.

[0014] The invention shall be better understood upon reading the following description of the preferred embodiment, while referring to the attached drawings, wherein

- Figure 1 is a perspective back view of the master backpack of the back assembly of the invention;
- Figure 2 is a perspective front view of the master backpack of figure 1;
- Figure 3 is a perspective back view of the slave backpack of the back assembly of the invention;
- Figure 4 is a perspective front view of the slave backpack of figure 3;
- Figure 5 is an exploded cross-sectional view of a locking buckle of the back assembly of the invention and
- Figure 6 is a perspective front view of the back assembly of the invention, with the master and slave backpacks secured together.

[0015] The back assembly of the invention comprises a "business" part 1 (figures 1 and 2) and a "personal" part 2 (figures 3 and 4). The advantages of such a back assembly have been presented herein above, so that there is no need to come back thereto.

Business part of the back assembly

[0016] It is the basic part of the assembly, actually a master backpack 1, comprising a front face 3, a back face 4 and a side strip 5, with a top portion 6, two lateral portions 7, 8 and a bottom portion 9, the side strip 5 joining the two front and back faces 3, 4. Two shoulder straps 10, 11 are secured to the back face 4 of the pack 1. During a walk, the backpack 1 is hung on the shoulders of the user of the pack.

[0017] To fit up the business items into here two compartments of the master backpack 1, it can be opened by two standard zips 12 and 12'.

[0018] A series of magnetic chips 13-16 are attached to the front face 3 of the backpack 1 but under it, thus hidden from the front linings 17, 17' of the front face. The chips are thus in fact invisible. However, for sake of understanding, the four locations of the chips have been marked on figure 2.

[0019] Another series of magnetic chips 18-21 are attached to the lateral portions 7, 8 of the side strip 5, between the zip 12' and the front face 3, also hidden under the outerlining 22 of the side strip 5. The chips are also

in fact invisible.

[0020] The function of the magnetic chips will be explained later on, after description of the other backpack 2.

[0021] A handle 27 is secured to the top portion 6 of the side strip 5. During a walk, the backpack 1 could also be carried out by the "businessman" with handle 27.

Personal part of the back assembly

[0022] It is a slave backpack 2, comprising a front face 23, a back face 24 and a side strip 5 joining the two front and back faces 23, 24.

[0023] The slave backpack 2 comprises a lateral back skirt 28 protruding out of the back face 24 and designed for covering part of the side strip 5, 22 of the master backpack 1 when both backpacks 1 and 2 are one against the other, front face 3 of the master backpack 1 against back face 24 of the slave backpack 2 (figure 3).

[0024] To fit up the personal items into slave backpack 2, it can be opened, on the front face 23 by two standard zips 41, 42.

[0025] A series of magnetic chips 33-36 are attached to the back face 24 of the backpack 2 but under it, thus hidden under the outerlining 29 of the back face 24. The chips are thus invisible. However, and like on figure 2, their locations have been shown on figure 3.

[0026] The magnetic chips of the back face 24 of the slave backpack 2 are positioned in order to cooperate with the magnetic chips of the front face 3 of the master backpack 1.

[0027] When the two backpacks 1, 2 are applied against each other, the magnetic chips 13-16 and 33-36 are facing each other and also applied against each other.

[0028] These magnetics chips 13-16, 33-36 are invisible means for attracting the master and slave backpacks 1 and 2 towards each other, for applying them front face 3 of the master backpack 1 to back face 24 of the slave backpack 2, and, thus, for securing both backpacks 1 and 2 together detachably.

[0029] When the two backpacks 1, 2 are split apart, by splitting apart the magnetic chips 13-16 and 33-36, the backpacks can be used separately.

[0030] The master backpack 1 and the slave backpack 2 have been provided for containing business items and personal items, respectively. Of course, it could be inverted.

[0031] Like on the front face 3 of the master backpack 1 and the back face 24 of the slave backpack 2, magnetic securing chips are attached within the skirt 28, here four chips 37-40, for cooperation with the four magnetic securing chips 18-21 attached to the side strip 5 of the master backpack 1, in order to even better secure both backpacks together.

[0032] To still increase even more the attachment of the two backpacks 1, 2, when needed, during travels and journeys, the two backpacks can be fastened with pairs of buckles.

[0033] Each pair of buckles 50, 51, as shown on figure 5, comprises a first crasp 52 and a second crasp 53 arranged for cooperation in the longitudinal (arrow 59) and the transversal (arrow 60) directions.

[0034] The longitudinal cooperation is provided, on crasp 52, by a groove 54 with a protruding rim 55 and, on crasp 53, by a tongue 56 to be introduced into the groove 54 and be "locked" within the groove by rim 55, thanks to the transversal cooperation 60 of two magnetic chips 57, 58 mounted of the two crasps, respectively.

[0035] At one end of each crasp, there is provided a rod 61, 61' between two cheeks 62, 62' to which a strap, by a loop, is fixed. So, a pair of buckles includes a first crasp with a first strap fastened to one of the two backpacks and a second crasp with a second strap fastened to the other of the two backpacks. In the embodiment shown on the figures, there are, on the master backpack 1, a buckle 63 on the top portion 6 of the side strip 5, with a strap attached to said top portion and to the front face 3, and two buckles 64, 65 on the lateral portions 7, 8 of the side strip 5, near by the bottom portion 9 of the side strip 5.

[0036] On the slave backpack 2, there are a buckle 66, fastened on top of the front face 23 and side strip 25, and two buckles 67, 68 fastened on the skirt 28 and the front face 23, near by the bottom portion, to cooperate with buckles 63, 64, 65, respectively.

Claims

1. A back assembly of a master backpack (1), with back (4) and front (3) faces and at least one shoulder strap (10) on its back face (4), of a slave backpack (2), with back (24) and front (23) faces, of securing means, for detachably securing them (1, 2) together and comprising invisible means (13-16, 33-36) for attracting them towards each other and applying them front face (3) of the master backpack (1) to back face (24) of the slave backpack (2), and of locking means (63-65, 66-68) for locking them together, so that each one of the backpacks (1, 2) may be used separately.
2. A back assembly as claimed in claim 1, wherein the invisible attracting means comprise a plurality of magnets (13-16, 33-36) hidden under a lining (17, 17', 29) in each one of the backpacks (1, 2).
3. A back assembly as claimed in claim 1 or 2, wherein the slave backpack (2) comprises a lateral back skirt (28) protruding out of the back face (24) of the slave backpack and arranged for covering part (22) of the lateral sides (7, 8) of the master backpack (1).
4. A back assembly as claimed in claim 3, wherein the back skirt (28) of the slave backpack (2) and lateral sides (7, 8) of the master backpack (1) comprise mu-

tual securing means (37-40, 18-21).

5. A back assembly as claimed in claim 4, wherein the mutual securing means comprise magnetic chips (37-40, 18-21). 5
6. A back assembly as claimed in one of claims 1 to 5, wherein the locking means comprise pairs of buckles (63-65, 66-68) attached to the master backpack (1) and the slave backpack (2), respectively. 10

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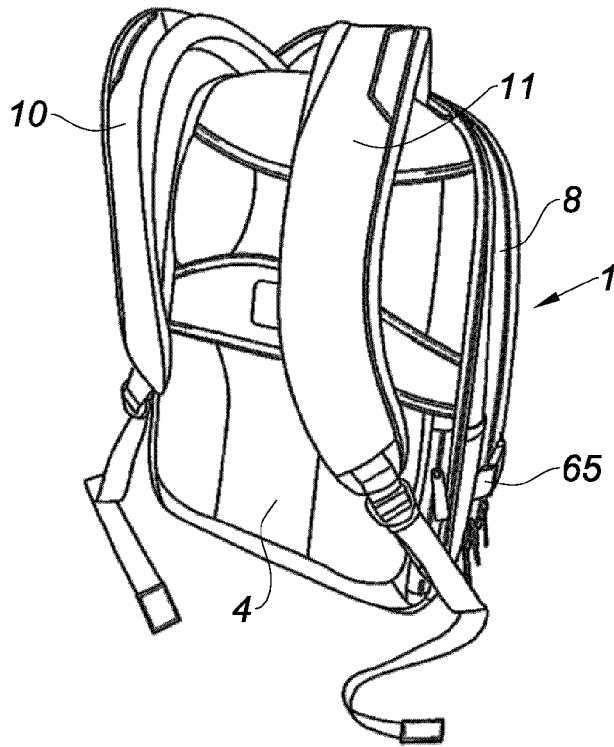


Fig. 1

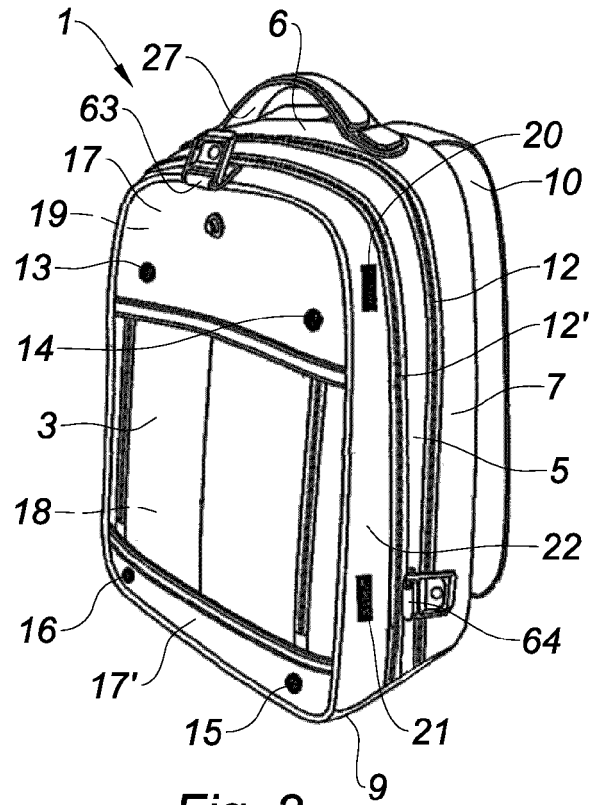


Fig. 2

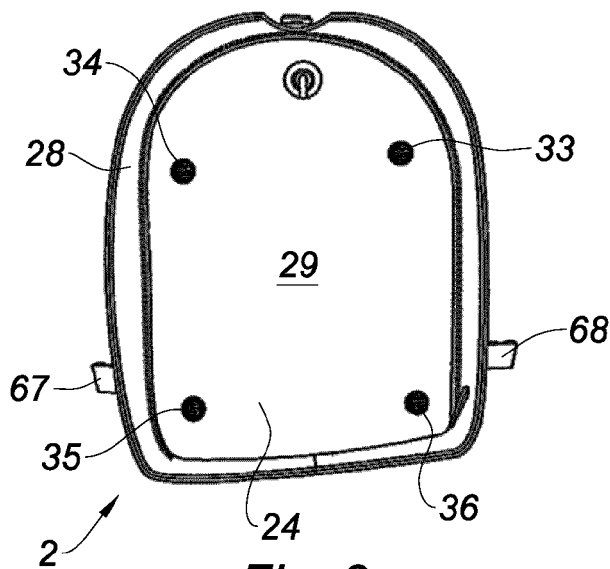


Fig. 3

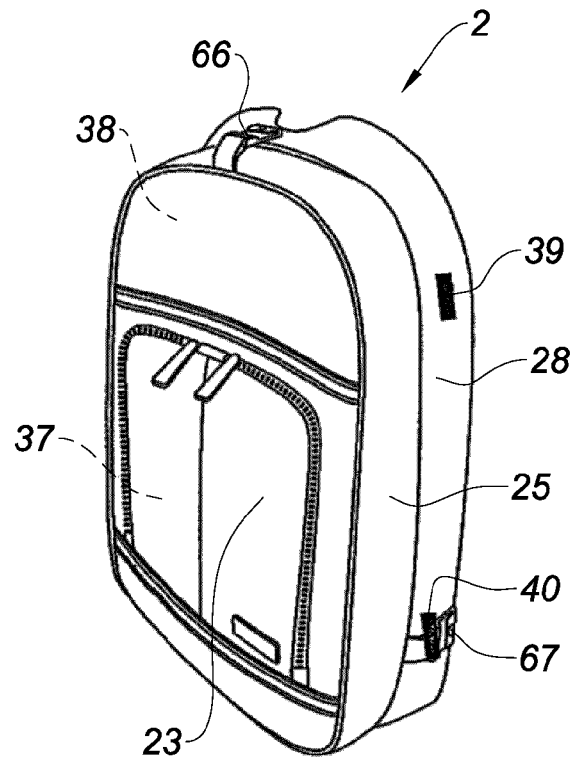


Fig. 4

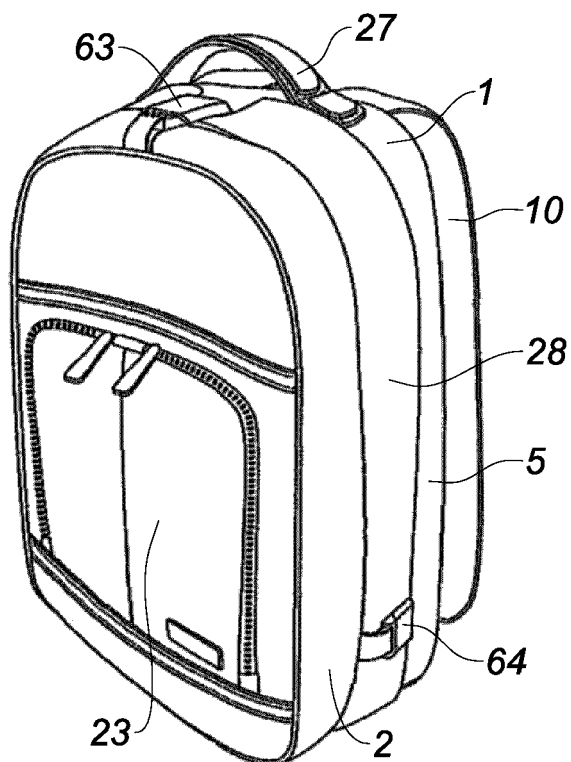
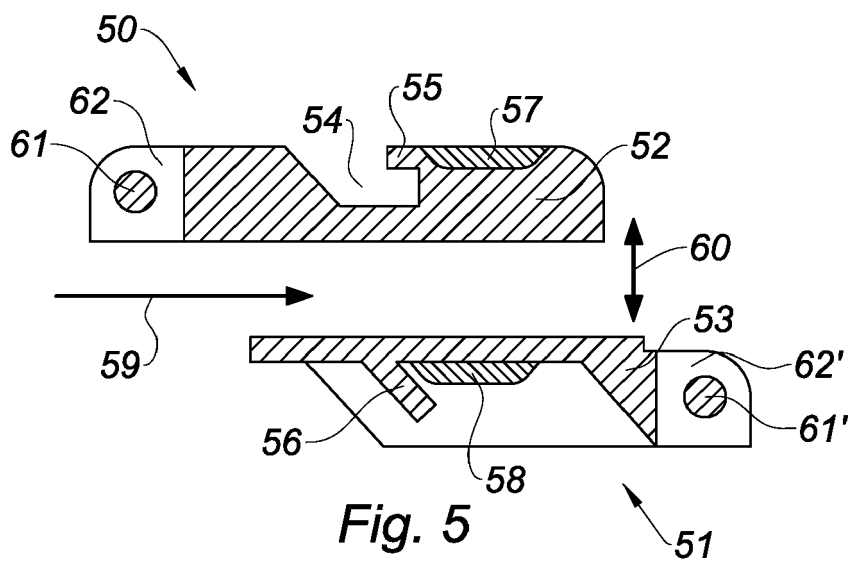


Fig. 6



EUROPEAN SEARCH REPORT

Application Number
EP 18 15 9153

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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	US 2015/157113 A1 (ANELEVITZ NOLAN [CA] ET AL) 11 June 2015 (2015-06-11)	1,3-6	INV. A45C7/00 A45F3/04
Y	* paragraph [0039] - paragraph [0050]; figures 1-8 *	2	
Y	US 2004/031702 A1 (MANGANO JOY [US]) 19 February 2004 (2004-02-19) * paragraph [0027]; figure 2a *	2	
			TECHNICAL FIELDS SEARCHED (IPC)
			A45C A45F
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 10 August 2018	Examiner Oliveras, Mariana
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			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82