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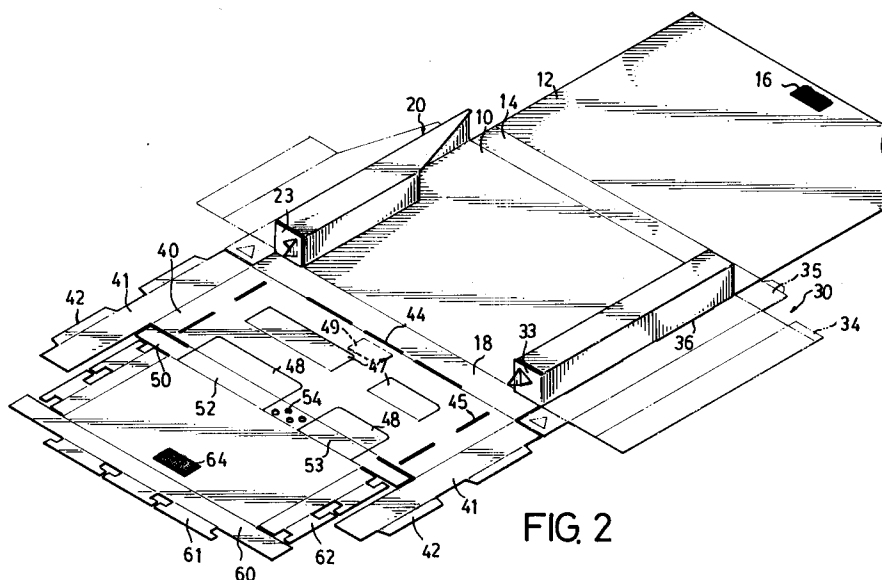
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L-8001 Strassen (LU)(54) **Carrying case.**

(57) A case arrangeable in a single plane includes a back wall (10), a cover (12), a top wall (14) hinged between the back wall (10) and the cover (12), two side panels (20,30) oppositely hinged to the back wall (10) and each foldable to form a column, a front wall (40) secured to the back wall (10) and folded to

form a space between the back wall (10) and the front wall (40). Paper or documents may be received in the space. A front panel (60) may further be secured to the front wall (40) so as to form another space between the front wall (40) and the front panel (60).

**FIG. 2****EP 0 621 194 A1**

The invention relates to a carrying case, and more particularly to a carrying case which can be easily assembled by the users.

Typical carrying cases comprise a plurality of panels, lugs, ears, plates, etc., which are assembled and fixed together by the manufacturers who spend a lot of time for assembling, fixing and adhering the parts together so as to form the carrying cases. This greatly increases the manufacturing costs thereof. In addition, the users may not assemble the carrying cases by themselves.

The invention has arisen to mitigate and/or obviate the afore-described disadvantages of the conventional carrying cases.

The objective of the invention is to provide a carrying case which includes a simplified configuration and can be easily assembled by the users.

In accordance with one aspect of the invention, there is provided a case arrangeable in a single plane comprising a back wall, a cover, a top wall secured between the back wall and the cover and folded to be perpendicular to the back wall and the cover respectively, two side panels oppositely hinged to the back wall and each foldable to form a column, at least one first slot formed between the back wall and each of the side panels, a front wall, a bottom wall secured between the back wall and the front wall and folded to be perpendicular to the back wall and the front wall respectively, the front wall including a pair of bands oppositely formed therein and secured to the columns respectively, and each of the bands including at least one ear extended therefrom for engaging with the first slot so as to secure the front wall to the columns, whereby, a space is formed between the back wall and the front wall for receiving objects.

Further objectives and advantages of the invention will become apparent from a careful reading of the detailed description provided hereinbelow, with appropriate reference to the accompanying drawings.

FIG. 1 is a plane view of a sheet material which can be easily folded and assembled to form the carrying case;

FIG. 2 is a perspective view illustrating the folding processes of the carrying case; and

FIGS. 3 and 4 are perspective views illustrating the carrying case which has been assembled, in which a panel of the carrying case as shown in FIG. 3 is folded inward of the carrying case, and the panel of that shown in FIG. 4 is folded outward.

Referring to the drawings, a carrying case is made of or arrangeable in a sheet material as shown in FIG. 1, the sheet material is preferably made of plastic materials, rubber materials, or any other suitable artificial materials, or of a piece of paper having one surface coated with transparent

plastic film which forms a protective and waterproof surface.

The sheet material comprises generally a back wall 10, a cover 12, two side panels 20, 30, a front wall 40, and a front panel 60 hinged to one another for being folded from a common plane mode so as to form the carrying case, a top wall 14 provided between the back wall 10 and the cover 12 and folded such that the top wall 14 is perpendicular to the back wall 10 and the cover 12 respectively, a securing means, such as VELCRO strip 16 secured to the cover 12. Each of the side panels 20, 30 includes two folded lines 21, 22, 31, 32 formed therein such that the side panels 20, 30 are separated into three strips which are folded to form a hollow column within which pens or pencils can be received, best shown in FIGS. 2 and 3, in which the three strips of the side panel 20 include different length and the strips of the other side panel 30 include an identical length, an ear 23, 33 folded to form the bottom of the respective column, a flap 34 and a lug 35 provided on the side panel 30 distal from the ear 33 so as to form a cover for covering the top of the column formed by the side panel 30. Two slots 26, 36 are formed between the back wall 10 and the side panels 20, 30 respectively; and a bottom wall 18 coupled between the front wall 40 and the back wall 10 and folded such that the bottom wall 18 is perpendicular to the back wall 10 and the front wall 40 respectively.

The front wall 40 includes a pair of bands 41 formed on the side portions thereof each having two ears 42 extended outward therefrom for engaging in the slots 26, 36 so as to secure the front wall 40 to the columns, it is preferable that the bands 41 are fixed to the columns by adhesive materials; a space is thus formed between the front wall 40 and the back wall 10, within which documents or papers can be accommodated. Three slots 44 are formed between the front wall 40 and the bottom wall 18, two pairs of slots 45 are formed in the front wall 40, and two pairs of doors 47, 48 are formed in the front wall 40 and each has one edge hinged to the front wall 40, in which the doors 48 are located closer to the front panel 60. An upper wall 50 is formed between the front wall 40 and the front panel 60 and includes two lugs 52, 53 secured to the doors 48 respectively, and several holes 54 formed between the lugs 52, 53.

The front panel 60 includes three engaging members 61 provided on the edge distal from the upper wall 50 for engaging with the slots 44 when the front panel 60 is turned outward as shown in FIG. 4. Two pairs of flaps 62 are provided on the side portions of the front panel 60 for engaging with the slots 45 of the front wall 40 such that the front panel 60 may be formed either outside of the front wall 40 (FIG. 4) or inside of the front wall 40

(FIG. 3). A securing means 49, 64 is disposed on the front wall 40 and the front panel 60 respectively for engaging with the securing means 16 of the cover 12 such that the carrying case can be easily assembled. The space formed between the front wall 40 and the front panel 60 can be provided for accommodating stationery goods which can be inserted into the space from the doors 47, 48.

Accordingly, the carrying case includes a simplified configuration and can be easily assembled by the users.

Although this invention has been described with a certain degree of particularity, it is to be understood that the present disclosure has been made by way of example only and that numerous changes in the detailed construction and the combination and arrangement of parts may be resorted to without departing from the spirit and scope of the invention as hereinafter claimed.

Claims

1. A case arrangeable in a single plane comprising a back wall, a cover, a top wall secured between said back wall and said cover and folded to be perpendicular to said back wall and said cover respectively, two side panels oppositely hinged to said back wall and each foldable to form a column, at least one first slot formed between said back wall and each of said side panels, a front wall, a bottom wall secured between said back wall and said front wall and folded to be perpendicular to said back wall and said front wall respectively, said front wall including a pair of bands oppositely formed therein and secured to said columns respectively, and each of said bands including at least one ear extended therefrom for engaging with said first slot so as to secure said front wall to said columns, whereby, a space is formed between said back wall and said front wall for receiving objects. 5
2. A case according to claim 1, wherein each of said side panels includes two folded lines so as to separate said side panels into three strips, said strips are folded so as to form said columns. 10
3. A case according to claim 2, wherein said strips has an identical length and includes a lug hinged to one of said strips for enclosing said column. 15
4. A case according to claim 1, wherein said front wall includes at least one door formed therein such that said objects may be inserted into said space via said door. 20
5. A case according to claim 1, wherein said front wall includes at least one second slot formed therein, at least one third slot is formed between said front wall and said bottom wall, said case further comprising a front panel secured to said front wall and foldable to a position in parallel to said front wall, said front panel including at least one engaging member extended therefrom for engaging with said third slot so as to secure said front panel to said front wall, whereby, a second space is formed between said front wall and said front panel. 25
6. A case according to claim 5, wherein said front panel includes at least one flap extended therefrom for engaging with said second slot so as to further secure said front panel to said front wall. 30
7. A case according to claim 5, wherein said front wall includes at least one door formed therein such that said objects may be inserted into said second space via said door. 35

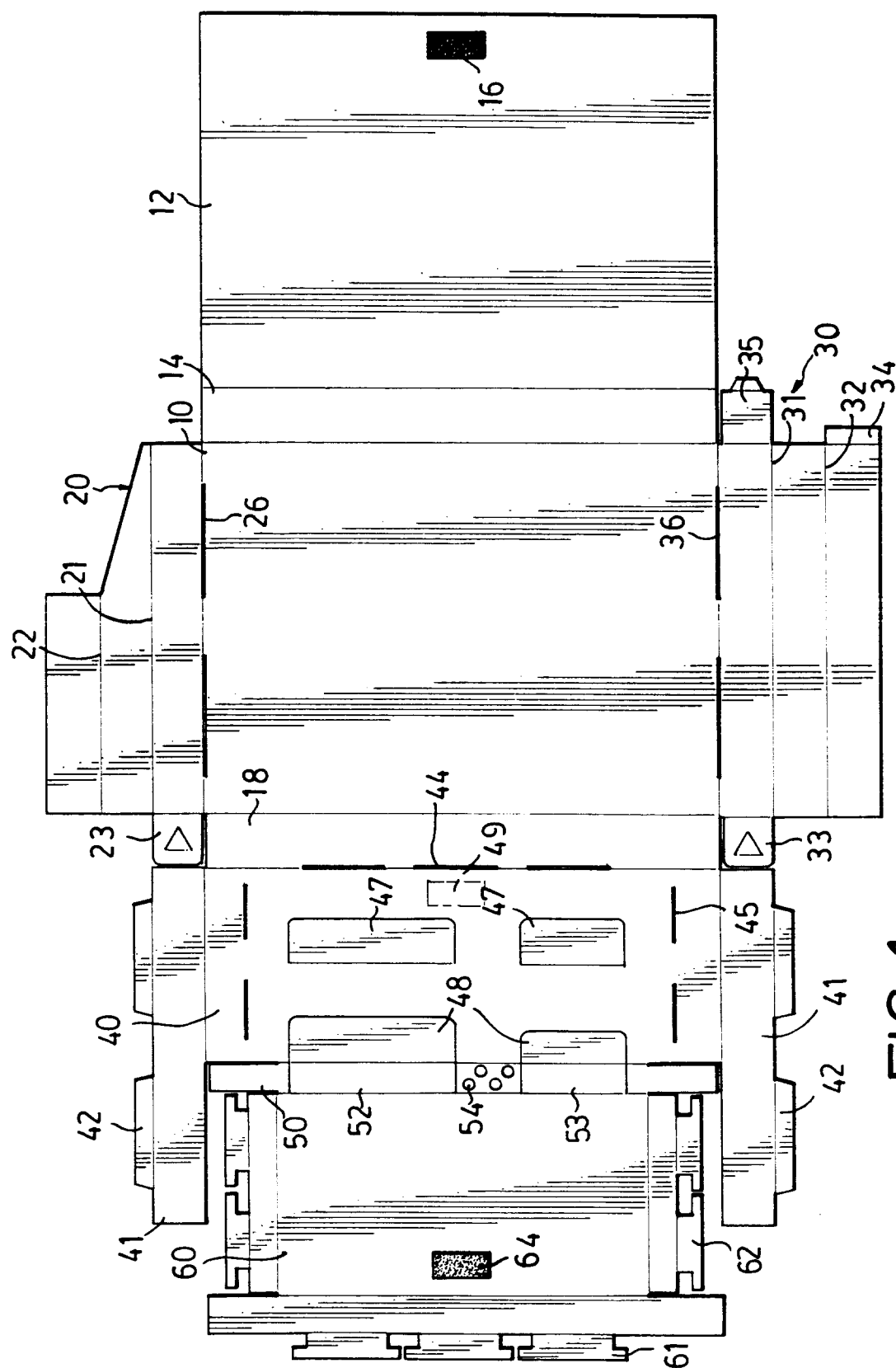


FIG. 1

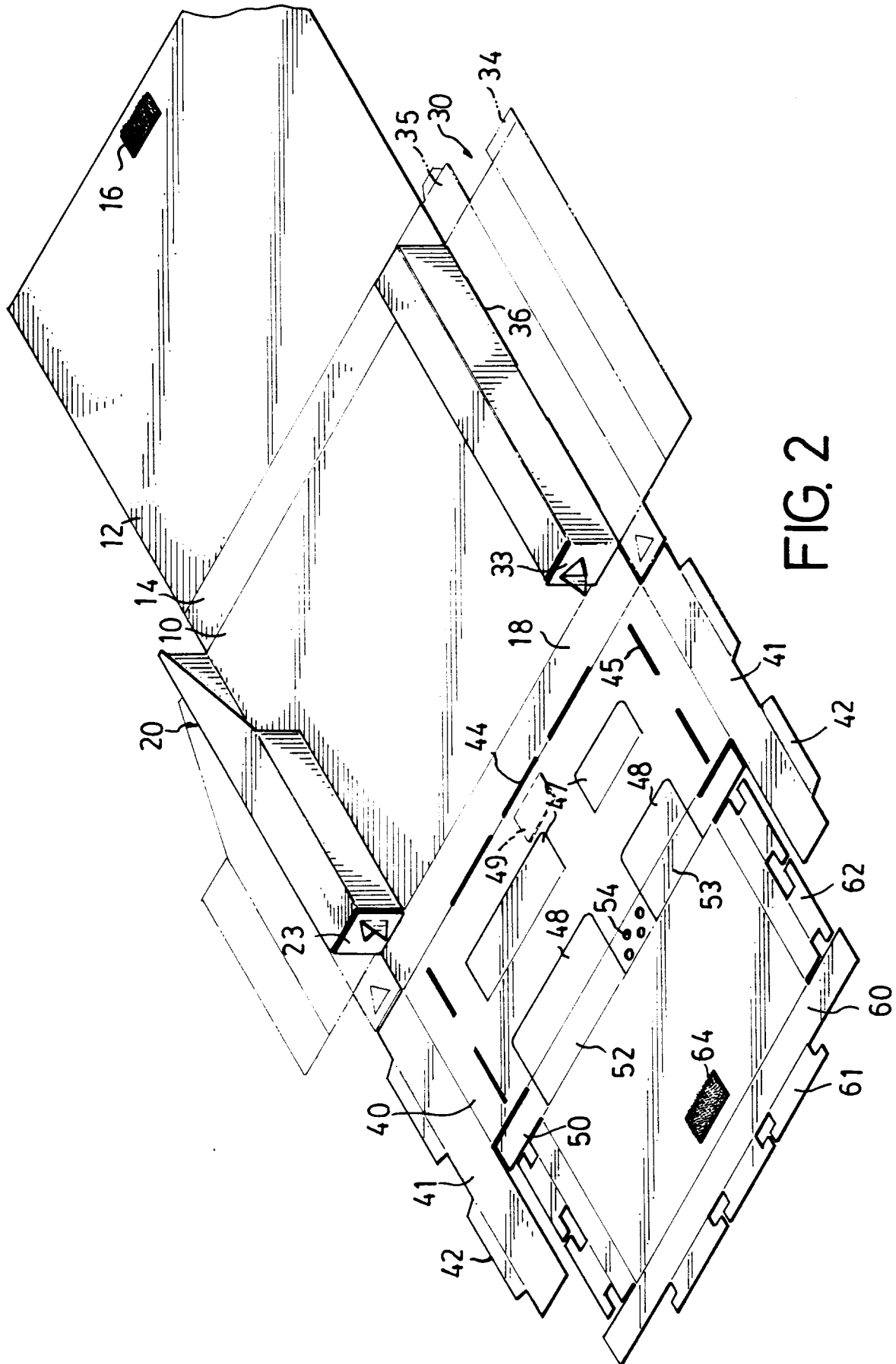


FIG. 2

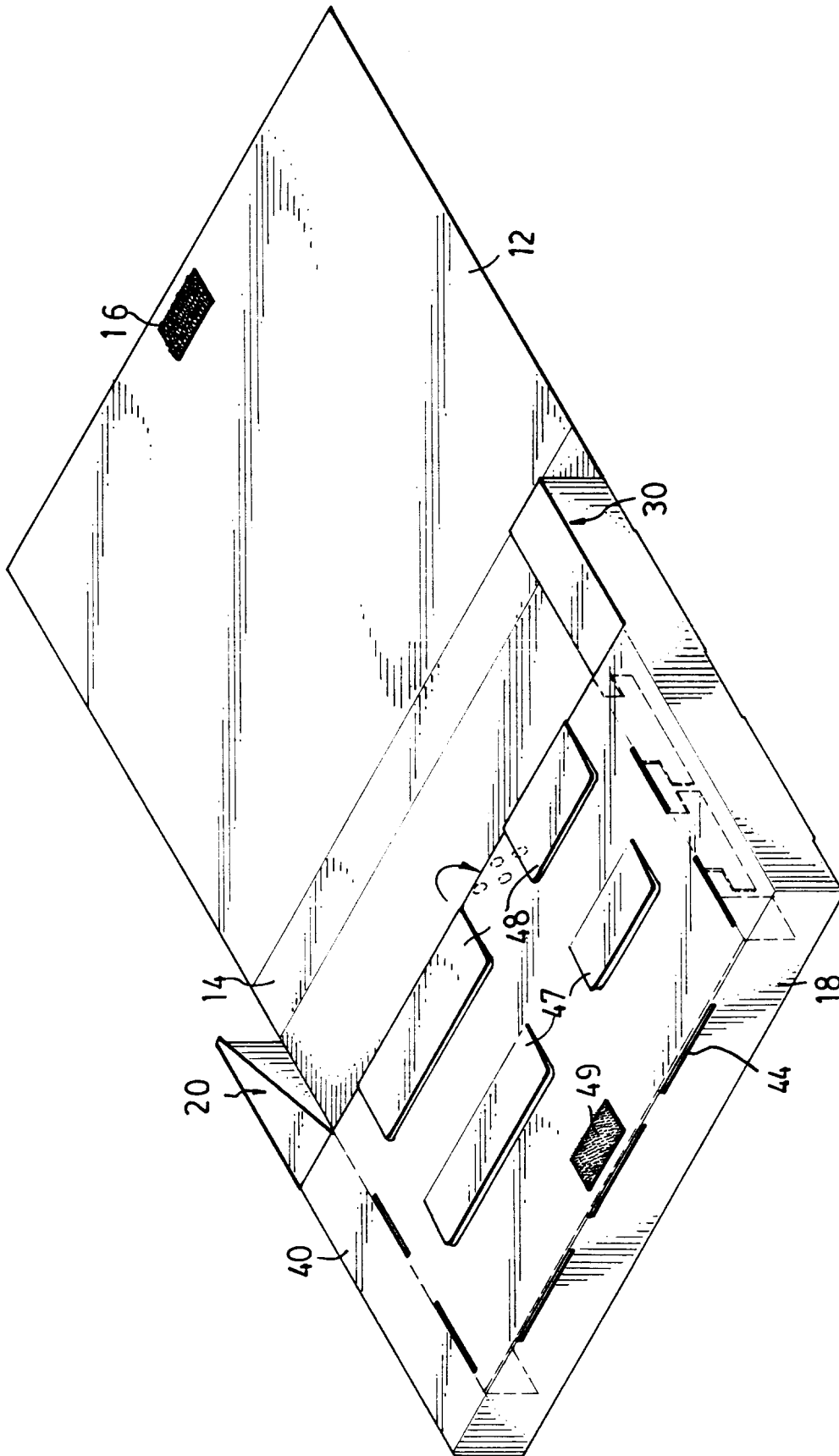


FIG. 3

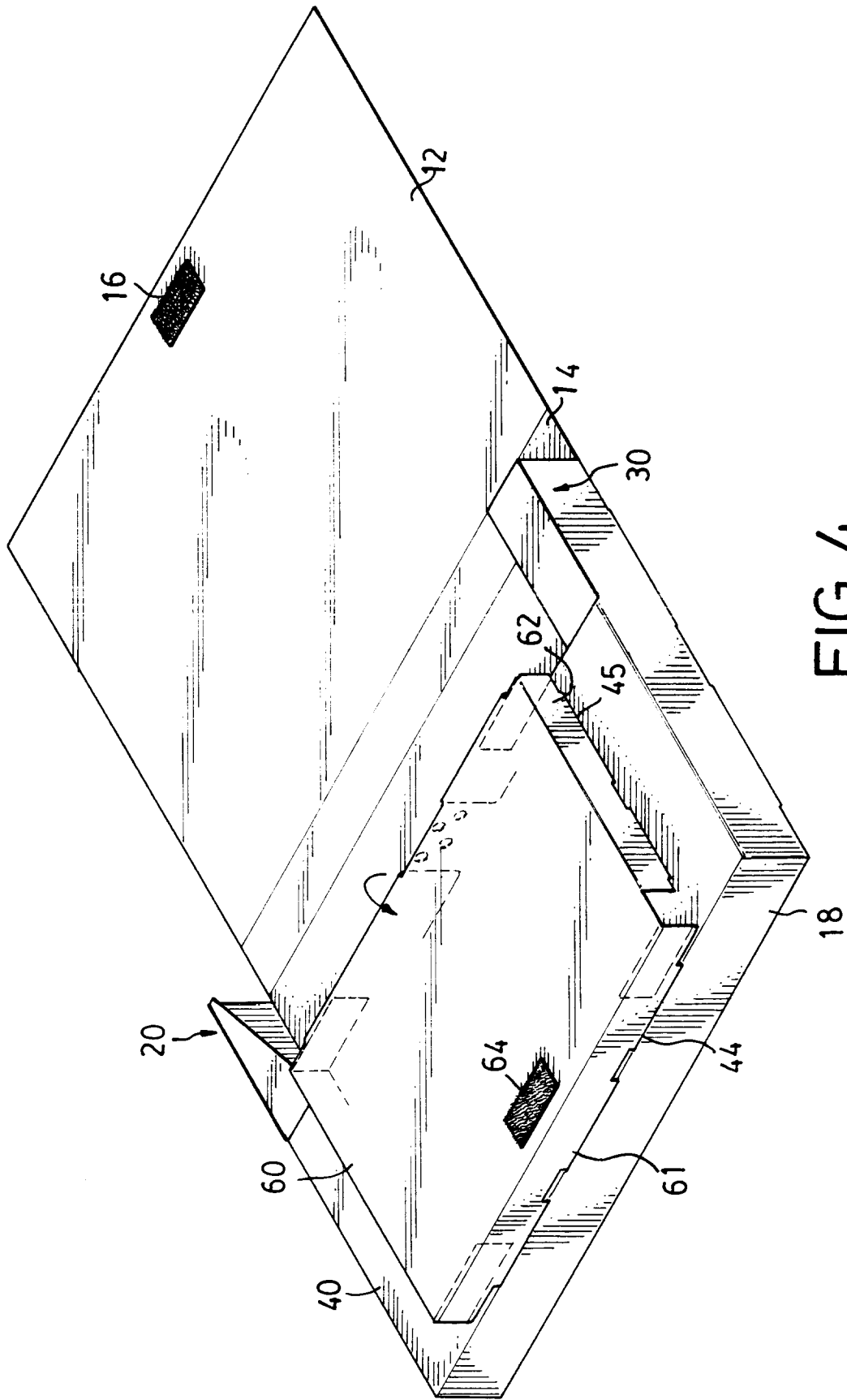


FIG. 4



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EUROPEAN SEARCH REPORT

Application Number

EP 93 10 5905

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y	FR-A-2 673 599 (SOCAR) * page 4, line 11 - page 5, line 17; figures 1,2 * ---	1-4	B65D5/20 B65D5/50 B65D5/72 B65D5/18
Y	US-A-3 451 535 (CAPLAN) * column 2, line 65 - column 3, line 34; figures 1-5 * ---	1-4	
Y	EP-A-0 028 995 (PAILLET) * page 14, line 18 - line 27; figures 7,28 *	3	
Y	US-A-3 494 536 (HENRY) * column 2, line 55 - line 62; figures 1,2 *	4	
A	US-A-5 029 709 (FAULSTICK) * figures 1-4 *	1,2	
A	US-A-4 572 423 (SPENCER) * column 3, line 49 - line 52; figures 1-3 *	4	
A	GB-A-107 813 (CHANDLER) * page 2, line 16 - line 22; figures 1-3,5 *	5	B65D A45C
A	GB-A-329 951 (RITCHIE) * page 2, line 32 - line 49; figure 1 *	7	
A	US-A-1 445 333 (LORENZ) -----		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 08 SEPTEMBER 1993	Examiner BERRINGTON N.M.
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	