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(11) **EP 1 350 636 A1**

(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
08.10.2003 Bulletin 2003/41

(51) Int Cl.7: **B42F 7/06**

(21) Application number: **02007791.3**

(22) Date of filing: **06.04.2002**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR**
Designated Extension States:
AL LT LV MK RO SI

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(54) **Spine device**

(57) The present invention relates to a spine device. The spine device includes a first sheet (21, 31), a second sheet (25, 35, 45) extending from an edge of the first sheet (21, 31), and plural spine sections (3, 431,

432) disposed on the edge, characterized in that when the first sheet (21, 31) and the second sheet (25, 35, 45) are directed to face with each other, each of the spine section (3, 431, 432) forms a specific area on the edge.

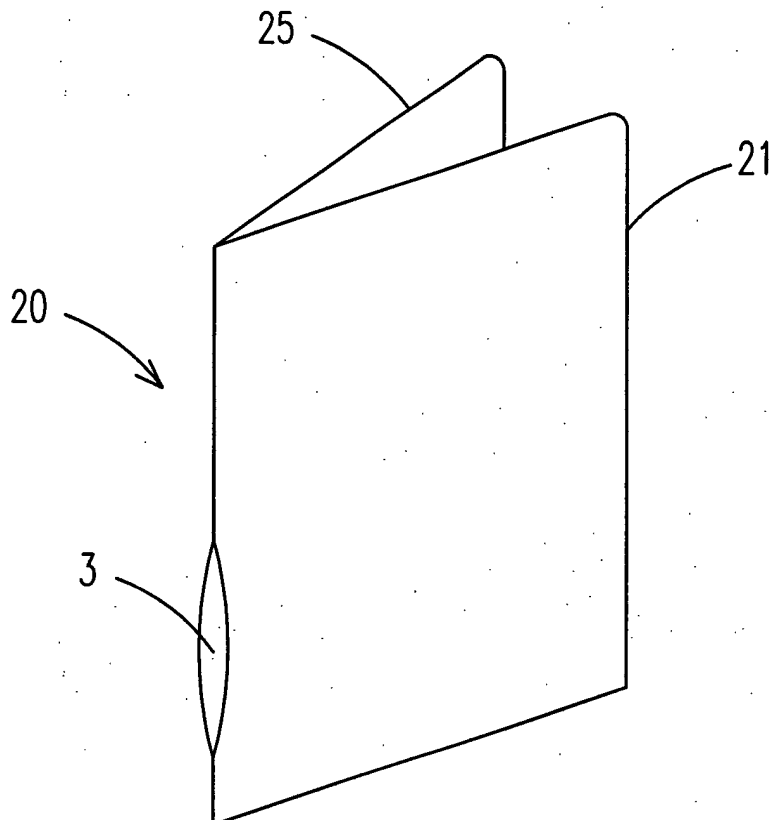


Fig. 1(b)

Description

[0001] The present invention is related to a spine device and more particularly, to a spine device with a paper holder, a portfolio, a diary, a PP file or the like.

[0002] Typically, a paper holder includes a cover sheet, a first inner sheet, a bottom sheet, and a second inner sheet. The first inner sheet with an area smaller than that of the cover sheet is secured on the inner surface of the cover sheet along two edges so as to provide a space between the cover sheet and the first inner sheet for holding papers. The bottom sheet extends from the cover sheet and has the same area as that of the cover sheet. And the second inner sheet has the same area as that of the first inner sheet which is secured on the inner surface of the bottom sheet along two edges so as to provide a space between the bottom sheet and the second inner sheet for holding papers.

[0003] According to the prior art, when paper holders have the cover sheet and the bottom sheet directed to face with each other and are put on a shelf, we can't distinguish those paper holders according to spines of those paper holders. Hence some one provides a paper holder with a whole face in spine. However, the whole face in spine can't be fixed stably. When a lot of paper holders are put on a shelf, we can't distinguish those paper holders according to the unstable whole face.

[0004] Therefore, it is tried to rectify this drawback by the present applicant.

[0005] It is therefore a first primary objective of the present invention to provide a spine device including a first sheet, a second sheet extending from an edge of the first sheet, and a spine section disposed on the edge, characterized in that when the first sheet and the second sheet are directed to face with each other, the spine section forms a specific area on the edge.

[0006] It is therefore second primary objective of the present invention to provide a spine device including a first sheet, a second sheet extending from an edge of the first sheet, and plural spine sections disposed on the edge, characterized in that when the first sheet and the second sheet are directed to face with each other, each of the spine sections forms a specific area on the edge.

[0007] It is therefore third primary objective of the present invention to provide a spine device including a first sheet a second sheet extending from a first edge of the first sheet, a first spine section disposed on the first edge, characterized in that when the first sheet and the second sheet are directed to face with each other, the spine section forms a first specific area on the first edge, a third sheet extending from a second edge of the first sheet, and a second spine section disposed on the second edge, characterized in that when the first sheet and the third sheet are directed to face with each other, the second spine section forms a second specific area on the second edge;

[0008] Certainly, the spine device is a paper holder.

[0009] Certainly, the spine device is a portfolio.

[0010] Certainly, the spine device can be a diary.

[0011] Certainly, the spine device can be a PP file.

[0012] Certainly, the first spine section and the second spine section are formed by means of pressing.

5 **[0013]** Preferably, the first spine section and the second spine section have particular shapes.

[0014] Preferably, the specific area is a vertical area.

10 **[0015]** Preferably, the first sheet, the second sheet, the third sheet, the first spine section and the second spine section are of a unity.

[0016] The foregoing and other features and advantages of the present invention will be more clearly understood through the following descriptions with reference to the drawings, wherein:

15 **[0017]** Fig. 1 illustrates other preferred embodiments of the present invention of paper holders; and

[0018] Fig. 2 illustrates other preferred embodiment of the present invention of a portfolio.

20 **[0019]** Fig. 3 illustrates other preferred embodiment of the present invention of a diary.

25 **[0020]** Please refer to Figs. 1(a) and 1(b). They illustrate a preferred embodiment of the present invention of a paper holder. The paper holder 20 includes a first sheet 21, a first inner sheet 23, a second sheet 25, a second inner sheet 27, and a spine section 3. The first inner sheet 23 with an area smaller than that of the cover sheet 21 which is secured on the inner surface 22 of the first sheet 21 along two edges A and B so as to provide a space between the first sheet 21 and the first inner sheet 23 for holding papers. The second sheet 25 extends from an edge of the first sheet 21 and has the same area as that of the cover sheet 21. The second inner sheet 27 has the same area as that of the first inner sheet 23, which is secured on the inner surface 24 of the second sheet 25 along two edges C and D so as to provide a space between the second sheet 25. And a spine section 3 is disposed on the edge. As shown in Fig. 1(b), when the first sheet 21 and the second sheet 25 are directed to face with each other, the spine section 3 forms a vertical area.

30 **[0021]** Fig. 2 illustrates other preferred embodiments of the present invention of paper holders. Each of paper holders includes a first sheet 31, a second sheet 35 and at least a spine section 3 disposed on the edge, wherein when the first sheet 31 and the second sheet 35 are directed to face with each other, the spine section 3 forms a vertical area. According to Fig. 3, we can catch on to what benefits of the present invention are. When paper holders have the first sheet 31 and the second sheet 35 directed to face with each other and are put on a shelf, we can distinguish those paper holders according to spines of those paper holders easily. Furthermore, because the paper holder has the spine section disposed on a vertical area and two sheets to form a three-dimensional structure, that kind of the structure will prevent two sheets from bending.

55 **[0022]** Fig. 3 illustrates other preferred embodiment of the present invention of a portfolio. The portfolio in-

cludes a first sheet (not shown), a second sheet 45 extending from a first edge of the first sheet, a first spine section 431 disposed on the first edge, a third sheet 42 extending from a second edge of the first sheet, and a second spine section 432 disposed on the second edge. The first spine section 431 and the second spine section 432 are formed by means of pressing. However the first sheet and the second sheet 45 are secured along two edges A and B, the spine section forms a first vertical area 431 on the first edge. When the first sheet and the third sheet 42 are directed to face with each other, the second spine section 432 forms a second vertical area on the second edge. Similarly to the above embodiments, each of the spine sections has a three-dimensional structure for strengthening the whole structure of the portfolio. On the other hand, the first sheet, the second sheet 45, the third sheet 42, the first spine section 431 and the second spine section 432 are of a unity and it is easy to be manufactured by means of pressing. Fig. 4 illustrates other preferred embodiment of the present invention of a diary. Such modifications and similar structures can decrease the cost of manufacture and strengthen the strength of the whole structure. It is really a useful invention.

Claims

1. A spine device comprising:

a first sheet (21, 31);
a second sheet (25, 35, 45) extending from an edge of the first sheet (21, 31); and
a spine section (3, 431, 432) disposed on the edge, **characterized in that** when the first sheet (21, 31) and the second sheet (25, 35, 45) are directed to face with each other, the spine section (3, 431, 432) forms a specific area on the edge.

2. The spine device according to claim 1 characterized the spine device is a paper holder.

3. The spine device according to claim 1 **characterized in that** the spine device is a portfolio.

4. The spine device according to claim 1 **characterized in that** the spine device is a diary.

5. The spine device according to claim 1 **characterized in that** the spine device is a PP file.

6. The spine device according to claim 1 **characterized in that** the spine section is formed by means of pressing.

7. The spine device according to claim 1 **characterized in that** the spine section has a particular

shape.

8. The spine device according to claim 1 **characterized in that** the specific area is a vertical area.

9. The spine device according to claim 1 **characterized in that** the first sheet, the second sheet and the spine section are of a unity.

10. A spine device comprising:

a first sheet (21, 31);
a second sheet (25, 35, 45) extending from an edge of the first sheet (21, 31); and
plural spine sections (3, 431, 432) disposed on the edge, **characterized in that** when the first sheet (21, 31) and the second sheet (25, 35, 45) are directed to face with each other, each of the spine sections (3, 431, 432) forms a specific area on the edge.

11. The spine device according to claim 10 **characterized in that** the spine device is a paper holder.

12. The spine device according to claim 10 **characterized in that** the spine device is a portfolio.

13. The spine device according to claim 10 **characterized in that** the spine device is a diary.

14. The spine device according to claim 10 **characterized in that** the spine device is a PP file.

15. The spine device according to claim 10 **characterized in that** the spine section is formed by means of pressing.

16. The spine device according to claim 10 **characterized in that** the spine section has a particular shape.

17. The spine device according to claim 10 **characterized in that** the specific area is a vertical area.

18. The spine device according to claim 10 **characterized in that** the first sheet, the second sheet and the spine section are of a unity.

19. A spine device comprising:

a first sheet (21, 31);
a second sheet (25, 35, 45) extending from a first edge of the first sheet (21, 31);
a first spine section (431) disposed on the first edge, **characterized in that** when the first sheet (21, 31) and the second sheet (25, 35, 45) are directed to face with each other, the spine section forms a first specific area on the

first edge;

a third sheet (42) extending from a second edge of the first sheet (21, 31); and

a second spine section (432) disposed on the second edge, **characterized in that** when the first sheet (21, 31) and the third sheet (42) are directed to face with each other, the second spine (432) section forms a second specific area on the second edge;

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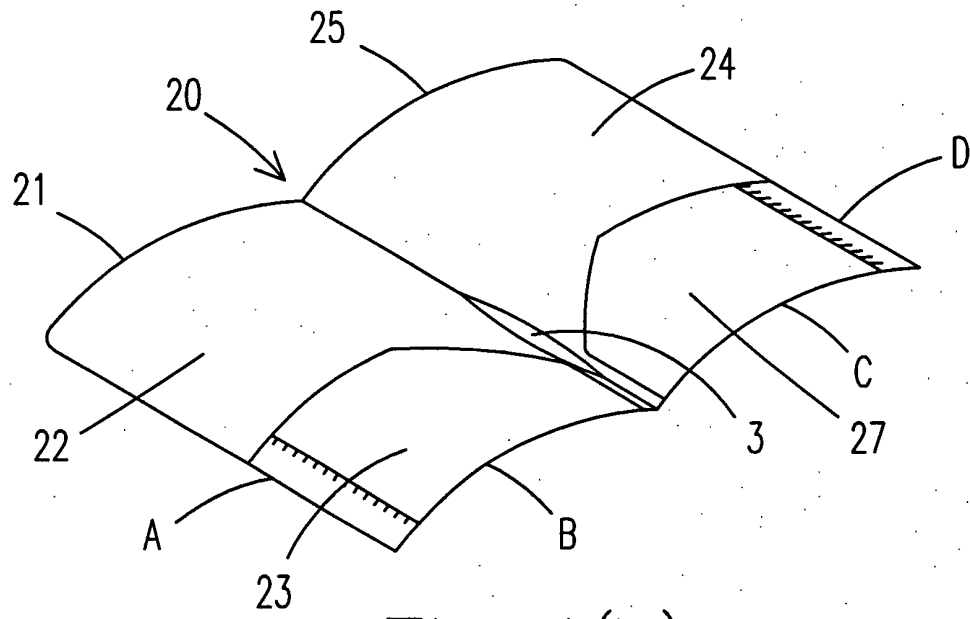


Fig. 1(a)

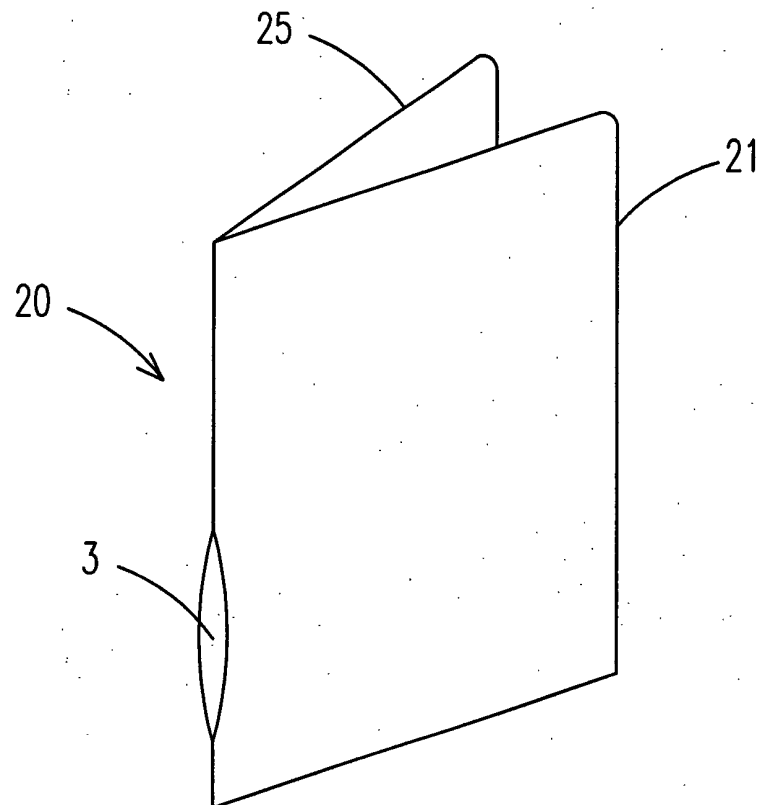


Fig. 1(b)

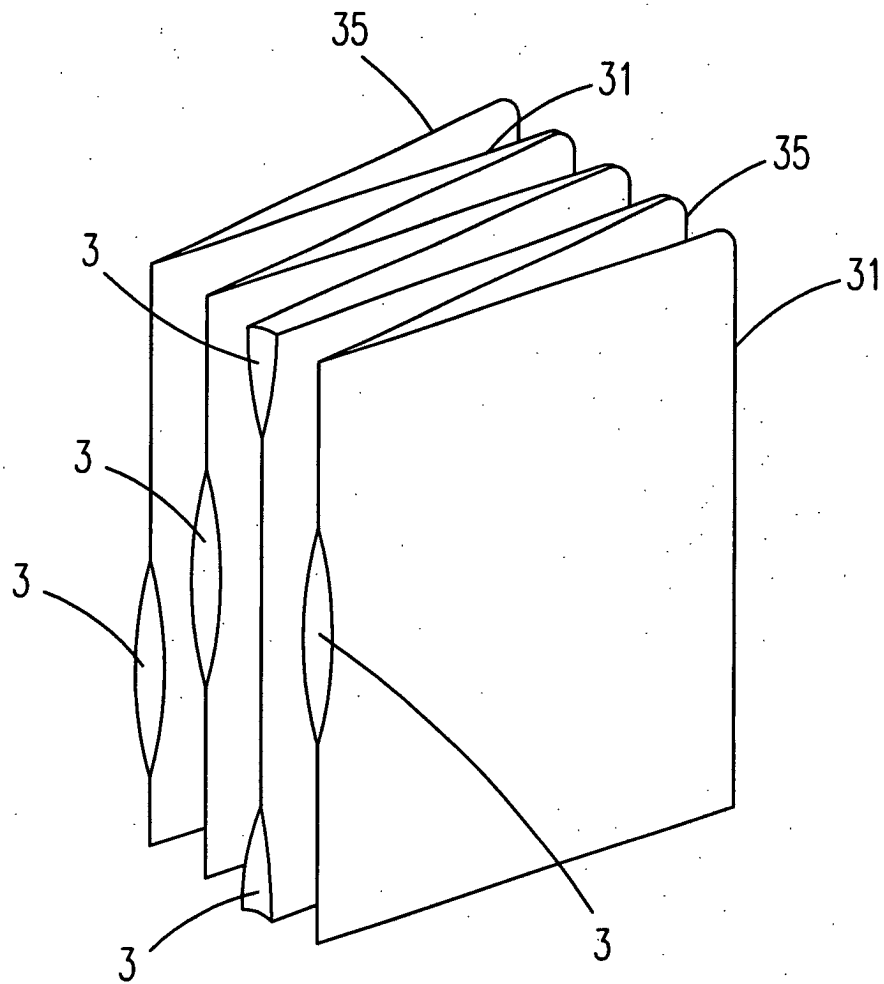


Fig. 2

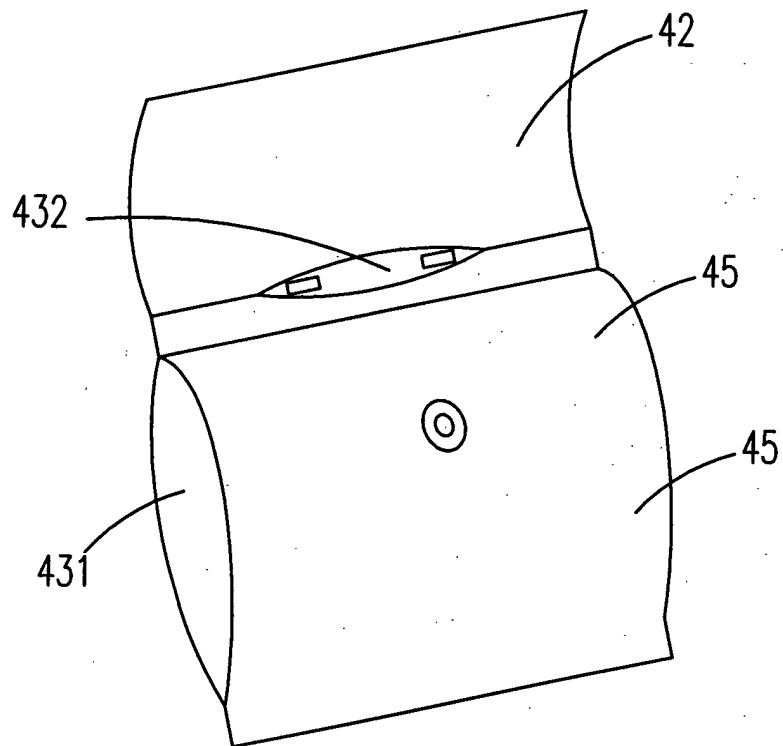


Fig. 3(a)

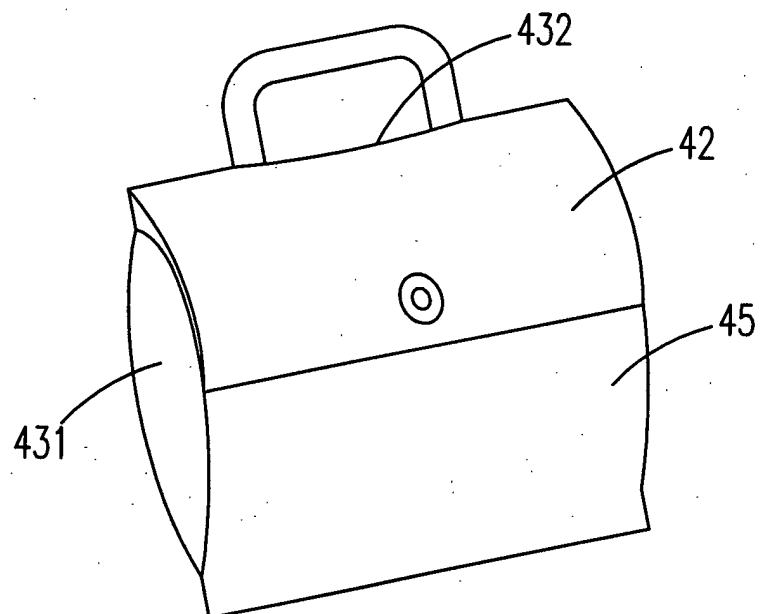


Fig. 3(b)

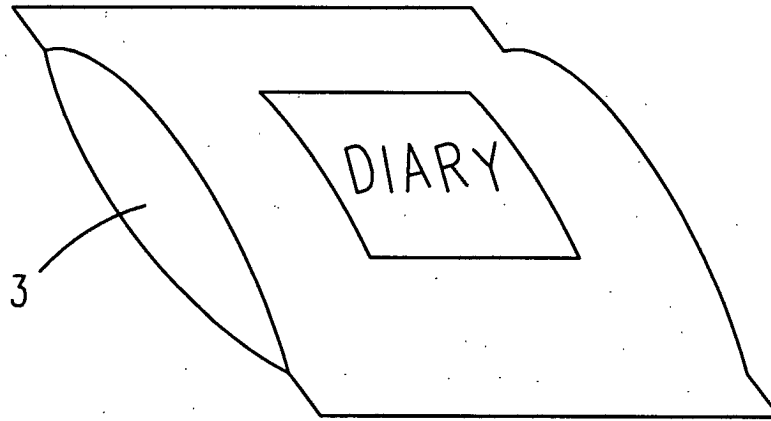


Fig. 4



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EUROPEAN SEARCH REPORT

Application Number
EP 02 00 7791

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.7)
X	FR 1 161 850 A (DUDOUYT) 4 September 1958 (1958-09-04) * the whole document *	1-20	B42F7/06
X	US 5 447 334 A (ERIC HARTSOCK) 5 September 1995 (1995-09-05) * the whole document *	1-20	
X	DE 815 484 C (BRUNO BREDENMACHER) 1 October 1951 (1951-10-01) * the whole document *	1-20	
X	US 3 146 816 A (AMERICAN KLEER-VU PLASTICS) 1 September 1964 (1964-09-01) * column 2, line 37 - line 66; figures 1-3 *	1-20	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			B42F
Place of search		Date of completion of the search	Examiner
THE HAGUE		6 August 2002	Loncke, J
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EPO FORM 1503 03/82 (P04C01)

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

EP 02 00 7791

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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06-08-2002

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82