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(54) Binding device for fixed or loose documents

(57) Binding device (1) for documents, consisting of spine adhesive means for permanently adhering one edge in each case of an information carrier such as a printed sheet of paper, wherein the spine adhesive means are formed inter alia by a rigid panel which forms part of a filing system (3), whereby two systems, the binding and filing systems (3), can be combined.

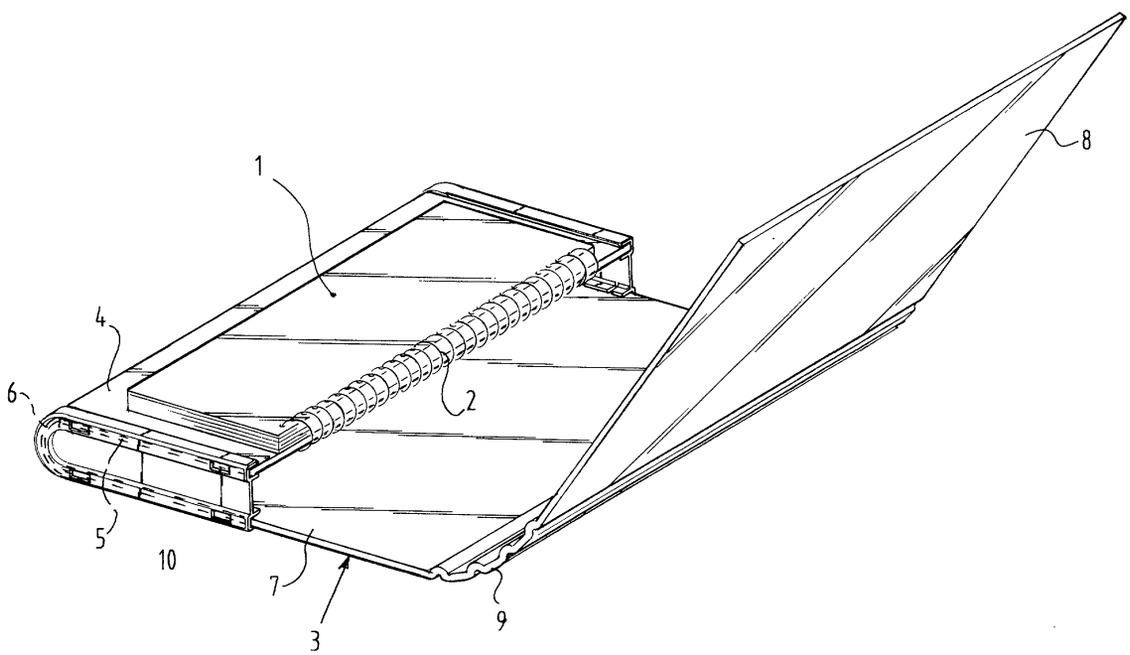

FIG. 1

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Description

[0001] The invention relates to a binding device for documents, consisting of spine adhesive means for permanently adhering one edge in each case of an information carrier such as a printed sheet of paper.

[0002] It is known to manufacture documents from a quantity of loose data carriers, such as printed sheets of paper, and to adhere these fixedly along one side in a spine band or the like. It is the intention here that the user employs a particular system, such as a glueing system or a spring system, to give the document a permanent fixed character. This can be done by the user as well as in a professional workplace.

[0003] Such a fixed document usually lacks another storage option for loose documents.

[0004] The invention has for its object to provide the above stated option and proposes for this purpose a binding device which is distinguished in that the spine adhesive means are formed inter alia by a rigid panel which forms part of a filing system.

[0005] This filing system preferably also has an additional storage space formed by a folding operation with the cover material. A separate holding system is preferably applied herein according to the invention which can be easily attached by the user in order to obtain a complete filing-binding system.

[0006] The invention is further elucidated with reference to the figure description hereinbelow of a number of embodiments. In the drawing:

Fig. 1 shows a perspective top view of a first embodiment of the binding system according to the invention;
Fig. 2 is a side view of the binding system of fig. 1;
Fig. 3 shows a top view of the blank of a second embodiment of the binding-filing system according to the invention;
Fig. 4 shows a device for glueing the edges of a number of document sheets by means of heating so as to form a permanent document.

[0007] The same components are designated in the figures with the same reference numerals.

[0008] Figure 1 shows a binding device 1, which is shown here in the form of a loose-leaf book part, wherein the sheets are permanently connected to each other along the spine side by means of a spring element 2. The lower cover of the book part is also in effect extended and stiffened, which panel can be so large according to the invention that a filing system 3 can be formed therewith. The lower cover part 4 of the book part 1 is not only extended in length direction but also in width direction, sufficiently to allow for instance the edge 5 of the rigid panel to be folded over at 6 and to transpose into a bottom panel 7 which continues as a closing cover part 8. Bottom panel 7 and closing cover part 8 are mutually connected by means of a hinge in the form of folding ribs 9. According to the invention the lower cover part 4 with the curved part 6 and a part of the bottom cover part 7 can be connected to a side panel 10 which can be clamped on any random side against the side edge 5 of rigid panels 4 and 7. This is shown in figure 3. The binding system 2 can thus be equipped with a filing system 3 of random nature and form, with the understanding that the filing system is manufactured from more rigid material.

[0009] The space formed between cover part 4 and panel 7 can be used to store loose documents, see D1 in figure 2.

[0010] The binding-filing system according to the invention can be made in particularly simple manner.

[0011] The starting point is a determined strip of material 30, see figure 3, which has a rectangular form and can consist of stiff, for instance cardboard material. The cardboard material can be covered on both sides with a printed cover layer to give it an attractive appearance. The cardboard strip 30 is provided beforehand with corrugations 40,41, this such that the end parts can be folded round the parallel corrugations 40,41, this as shown in figure 2.

[0012] One of the edges 31,32 is provided beforehand with means, here for instance punched holes 33, to enable arrangement of spring element 2 and the permanent book part 1 to be connected thereto. Figure 3 herein differs from the embodiment of figure 2 in that the free edge of cover part 8 can also be provided with a permanent document, for instance a diary.

[0013] This permanent book part can be realized by the user by means of the known binding means, spring, plastic rivet system or by means of glueing.

[0014] The user need then only make the filing system by means of for instance separate fitting parts 34 which can be fixed in close-fitting manner against the side edge 36 of the cardboard blank 30, wherein the rounding 6 is also made. A pocket for storing loose documents D is hereby created.

[0015] Figure 4 shows the embodiment wherein the cardboard blank part 30 can be placed with one edge in a heated trough 50 of an electrically heatable binding system together with the sheets of the permanent document 1, wherein they are held in V-shaped folding element 51 which is provided on the inside with a glue bead 52.

[0016] Using this glue bead 52 the edges of the sheets can be adhered permanently to each other by means of the heatable glue.

[0017] The invention is not limited to the above described embodiments. The binding devices can be of many types, wherein use can be made of known systems.

Claims

1. Binding device for documents, consisting of spine

adhesive means for permanently adhering one edge in each case of an information carrier such as a printed sheet of paper, **characterized in that** the spine adhesive means are formed inter alia by a rigid panel which forms part of a filing system.

2. Binding device as claimed in claim 1, **characterized in that** the spine adhesive means are formed by a continuous spring element such as a spiral spring.

3. Binding device as claimed in claim 1, **characterized in that** the spine adhesive means are formed by a fold with a glueing means for receiving and holding the sheet edges and an edge of the rigid panel.

4. Binding device as claimed in any of the foregoing claims, **characterized in that** the filing system is particularly provided with an insert space for loose documents formed by the rigid panel by means of a folding operation.

5. Binding device as claimed in claim 4, **characterized in that** the insert space is provided with at least one edge panel which can be fixed to the side edge of the rigid panel.

6. Binding device as claimed in claim 5, **characterized in that** the or each side panel can be attached by the user as a separate fitting part, for instance by means of a snap connection, on the side edges of the rigid panel.

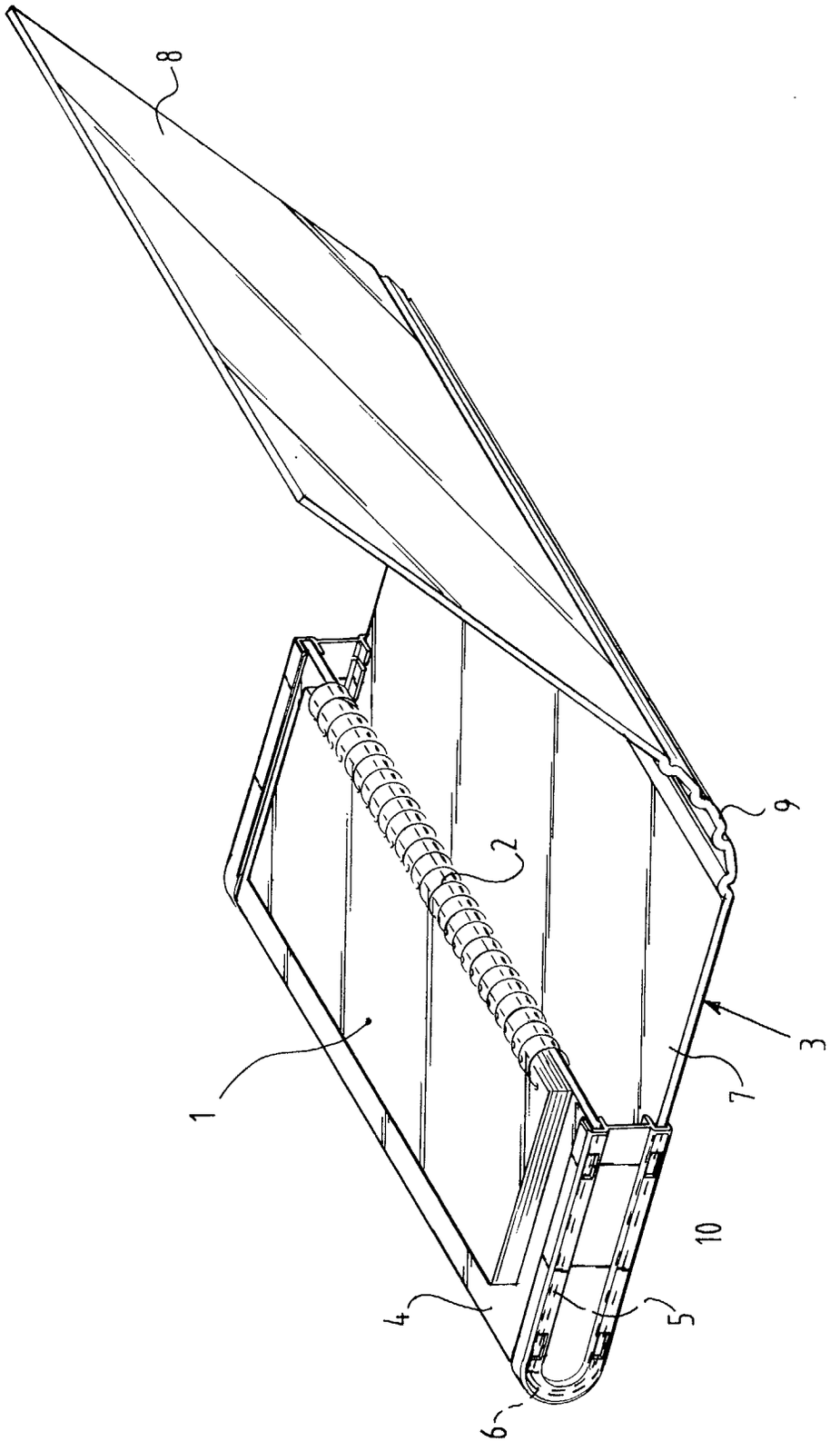

FIG. 1

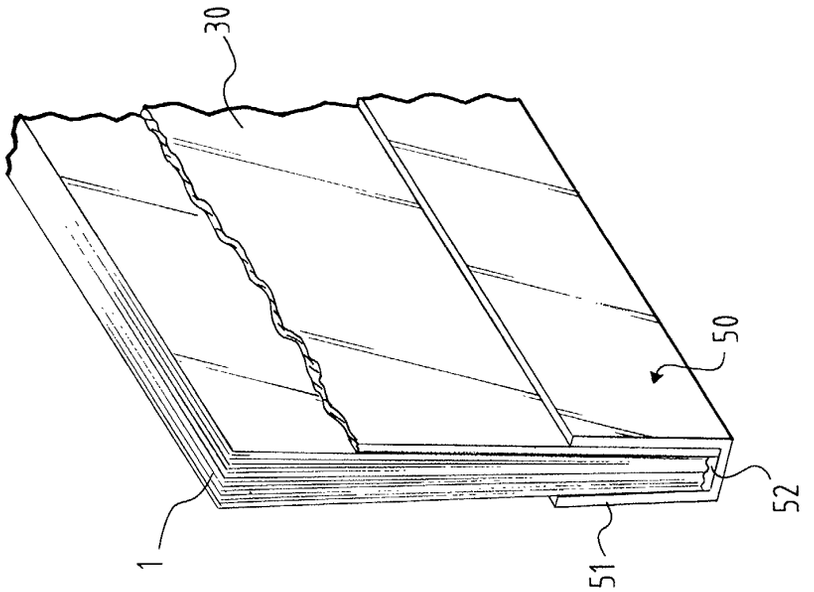

FIG. 4

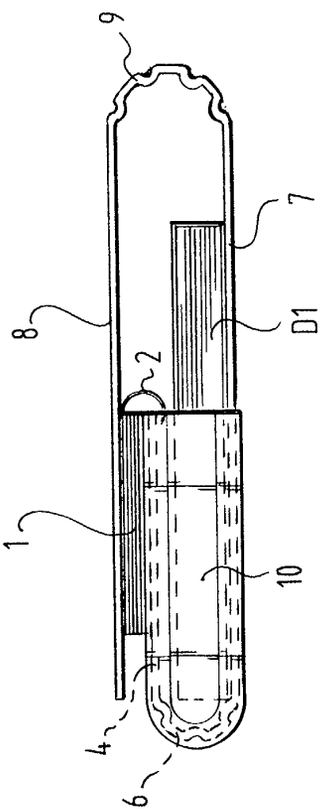

FIG. 2

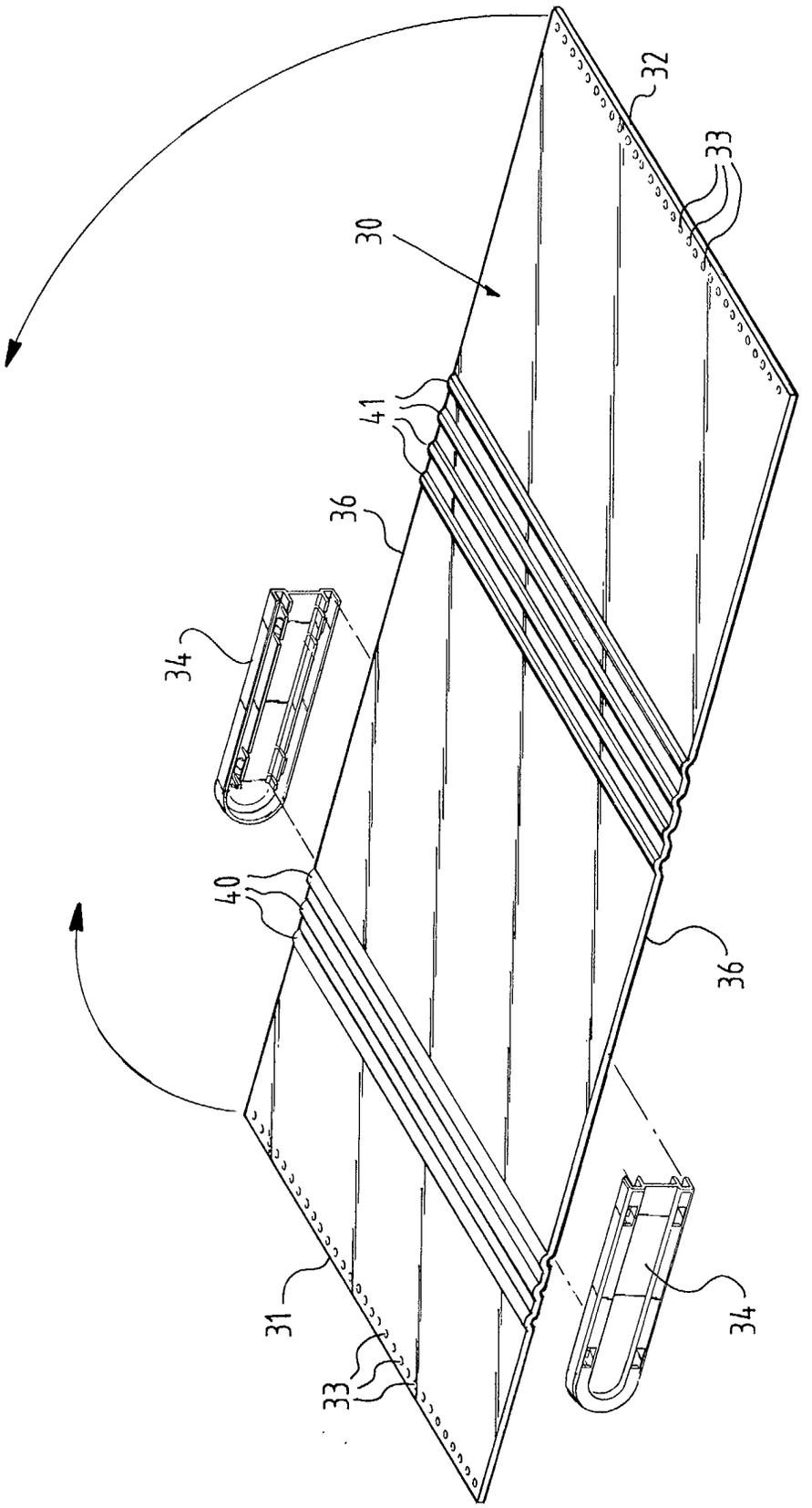

FIG. 3

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EUROPEAN SEARCH REPORT

Application Number
EP 01 20 5002

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	DE 93 20 077 U (THALHOFER) 27 April 1995 (1995-04-27) * page 5, line 1 - page 8, line 5; figures 1,2 *	1-4	B42B5/12 B42F7/02

TECHNICAL FIELDS SEARCHED (Int.Cl.7)

B42B
B42F
B42D

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	28 March 2002	Evans, A

CATEGORY OF CITED DOCUMENTS

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EPO FORM 1503 03.82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 01 20 5002

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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28-03-2002

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DE 9320077 U	27-04-1995	DE 9320077 U1	27-04-1995

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