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(54) Printing inserts for optical drives

(57) The subject of the invention is the paper printing inserts for optical drivers to be used as insert to join with the backbone of magazines, brochures and books by gluing or sewing in. The envelope for the optical drivers consists of a rectangular pattern from which after folding along the fold line, an envelope is formed, according to the invention characterized in that at the extension of the back wall (2), behind the edge for gluing in (3), the crease (4') forms the closing flap (4), and on the edge for gluing in (5) of the front wall (1) there is at least one hole (6) cut.

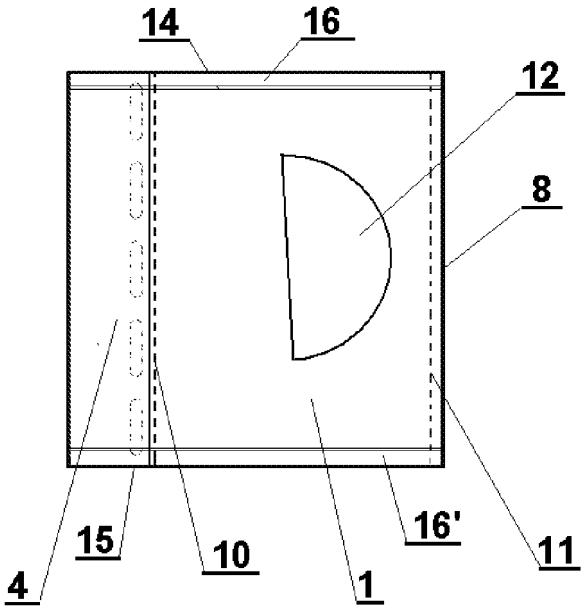

Fig. 2

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Description

[0001] The subject of invention is a printing insert for optical drivers to be used as insert to join in with the backbone of magazines, brochures and books by gluing or sewing in.

[0002] A packaging for CD-ROMs as cover or loose insert for magazines is also known from the Polish application description no. P-331642. The invention concerns a cover and an insert to a magazine that has back part and front part joined to each other along the folding. The front part has a compartment for a CR-ROM. The compartment for CD-ROM creates the whole entity with the front part of the cover and insert. In the area of CD-ROM front part there is a hole cut.

[0003] The package being a set of two envelopes exclusively for CD in magazines, is known from a German description of the utility model no. DE 20010914. The set has folds formed in the shape of an envelope in which two CDs are placed next to each other. The closing flap is formed in the upper edge of the front wall of the envelope. The back wall has a fold formed and this fold is glued into a magazine, and the extension of the front wall of the envelope covers folded back wall of the envelope. Parallel to the gluing edge in the backbone of magazine there is a perforation that goes through at least one cut on the front wall of the magazine. The same perforation is at the back wall and after folding the envelopes one is on another one and this enables tearing it out of a magazine. The forming of the pocket for CD takes place by placing on the back wall two cuts running parallel to each other. The separation of the two envelopes is obtained by using perforation between them.

[0004] The envelopes, known from the current technology and used as inserts are usually made of cardboard paper that makes it difficult, and sometimes even impossible to lead in the inserts into a magazine.

[0005] The printing inserts for optical drivers consisting of rectangular pattern from which, after folding along the fold line, an envelope is formed, according to the invention characterized in that at the extension of the back wall of the envelope, behind the edge for gluing in there is a closing flap formed by the crease, and the edge for gluing in at the front wall of the envelope there is at least one hole cut.

[0006] It is advantageous that parallel to edge for gluing in of the front wall and edge for gluing in of the back wall there is a crease creating upper edge aimed at tearing the envelope out of the magazine.

[0007] It is advantageous that there are five holes cut on the edge for gluing in of the front wall.

[0008] It is advantageous that the creases are a perforation.

[0009] It is advantageous that parallel to the folding edge of the envelope there is a crease performed at the front wall and the back wall, which after folding creates the bottom edge of the opening.

[0010] It is advantageous that the creases are a perforation.

[0011] It is advantageous that at the front wall or the back wall of the envelope there is a small window cut at any position.

[0012] It is advantageous that the envelope is made of paper of the grams per square metre of 80-300g/m^2.

[0013] In different performance of the invention the printing inserts for optical drivers is a set of two envelopes where two optical drivers are placed next to each other and separated by the crease.

[0014] It is advantageous that the crease is a perforation.

[0015] It is advantageous that above the folding edge of the envelope, on the front wall and/or on the back wall there is a perforation performed in the shape of half-circle window, which after folding of the envelope creates the edge of the envelope opening.

[0016] It is advantageous that at the side edges there are trimming margins formed by gluing.

[0017] It is advantageous that the trimming margins are formed by a crease.

[0018] It is recommended to cover the surface of the printing inserts in print.

[0019] The printing inserts for optical drivers, according to the invention, is above all to be used as a glued in insert, or set of inserts containing CD or DVD, automatically added to magazine or book during bookbinding process.

[0020] The purpose of the invention is to create the envelope which thickness may be compared to that of the page of the magazine, that automatic leading in of the printing inserts for optical drivers into a magazine does not change the methods of treatment of the magazine, and does not cause damage to the printing machine nor to the envelope's contents.

[0021] Unexpectedly it occurred that the appropriate construction of the printing inserts for optical drivers formed by closing flap on the back wall and gluing of three layers: the edge for gluing in of the front wall with the edge of gluing in of the back wall together with the closing flap enables easy, safe and automatic inserting in of the printing inserts into the magazine. The inserting of the backbone of the paper envelope during the automatic process of preparation of the magazine does not cause the damage to the contents of the envelope and even more does not cause damage to the machine. The performance of the crease margins at the edges of the printing inserts allows the cutting of the magazine or the book on 3-knife trimmer without worry concerning the damage of the contents.

[0022] The performed perforation on the gluing in edge facilitates easy and aesthetic tearing out of the printing inserts from a magazine or book without damaging either the envelope's content nor the backbone of the publishing unit it was glued into.

[0023] Additionally the perforation performed near the folding edge of the envelope allows it to be opened without tearing out of the envelope from the magazine. It is

essential especially if the surface of the printing inserts is to be used for graphic imprint.

[0024] The performance of the printing inserts as a set for two optical drivers is an additional advantage of the solution.

[0025] The window cut in the printing inserts may be a decorative element and at the same time it allows disc imprint visualization. The performance of the packaging of cellulose raw material i.e. paper facilitates its recycling and is favorable due to ecological reasons.

[0026] The subject of invention in unlimited performance examples is presented in a drawing, at which:

Fig.1 - presents the view of the printing inserts' unfold intersection

Fig.2 - presents the view of the printing inserts from the front after folding, and

Fig.3 - presents the view of the set of two printing inserts.

Example I

[0027] The printing inserts for optical drivers consist of rectangular pattern from which after folding along the fold line (8) an envelope for optical driver is formed. At the extension of the back wall (2), behind the edge for gluing in (3) the crease (4') forms the closing flap (4). On the gluing edge (5) of the front wall (1) there are five holes performed (6). There is a layer of glue placed on the flap. After folding the envelope along the folding edge (8) and placement of the optical driver inside, the three layers of the envelope are glued together i.e. the edge for gluing in of the front wall (1) with the back wall (5) and the flap (4). The width of the edge after gluing of the tree parts is at least 20mm. Below, parallel to the edge for gluing in (5) of the front wall (1) and the edge for gluing in (3) of the back wall (2) there is a perforation performed (7) and (7'), creating after folding of the envelope the upper edge (10) aimed at tearing of the envelope out of the magazine. Parallel to the folding edge (8) of the envelope, there is crease performed (9) and (9'), which after folding of the envelope covers and forms the lower edge (11) of the opening of the envelope. The printing inserts is made from paper of the grams per square metre of 150g/m^2. At the side edge (14) and the side edge (15) there are trimming margins (16) and (16') formed by gluing.On the front wall (1) there is a small window (12) cut at any position. The surface of the printing inserts is printed over with any text. Each value of the gram per square meter given for the range of 80-300g/m2 in claims fulfills the requirements of application.

Example II

[0028] The printing inserts for optical drivers consist of rectangular pattern from which after folding along the folding line the set of two envelopes is formed where two optical drivers are to be placed inside. The envelope is made of paper of the grams per square metre of 200g/m^2. At the extension of the back wall (2), behind the edge for gluing in (3) there is closing flap (4) formed by crease (4'). On the edge for gluing (5) of the front wall (1) there is a hole performed (6). While there is a layer of glue placed on the flap, which after folding of the envelope along the folding edge (8) allows for gluing of the three layers: the edge for gluing in (3) with the edge for gluing in (5) with the flap (4). Parallel to the edge for gluing in (5) of the front wall (1) and the edge for gluing in (3) of the back wall (2) the crease (7) and (7') is performed, creating after folding of the envelope the upper edge (10) aimed at tearing of the envelope out of the magazine. Additionally, parallel to the folding edge (8) of the envelope, the perforation is performed (9) and (9'), which after folding of the envelope covers and constitutes the lower edge (11) of the opening of the envelope. The edge separating the two optical drivers is made by the perforation (13) along the entire wall (1) and wall (2). At the side edge (14) and at the side edge (15) there are trimming margins (16) and (16') formed by the crease. Each value of the gram per square meter given for the range of 80-300g/m2 in claims fulfills the requirements of application.

Example III

[0029] The printing inserts for optical drivers consist of rectangular pattern from which after folding along the fold line an envelope for optical driver is formed. The envelope is made of paper of the grams per square metre of 80g/m^2. At the extension of the back wall (2), behind the edge for gluing in (3) there is closing flap (4) formed by crease (4'). On the edge for gluing in (5) of the front wall (1) there are five holes performed (6). But there is a layer of glue placed on the flap, which after folding of the envelope along the folding edge (8) allows for gluing of the three layers: the edge for gluing in (3) with the edge for gluing in (5) with the flap (4). The width of the edge after gluing is at least 20mm. Parallel to the edge for gluing in (5) of the front wall (1) and the edge for gluing in (3) of the back wall (2) the perforation (7) and (7') is performed, creating after folding of the envelope the upper edge (10) aimed at tearing of the envelope out of the magazine.

[0030] But the lower part of the envelope above the folding edge (8) of the envelope, on the front wall (1) the perforation is performed in the shape of half-circle. At the side edge (14) and at the side edge (15) there are trimming margins (16) and (16') formed by crease. The surface of the envelope is optionally covered with any printed text on both sides. Each value of the gram per square meter given for the range of 80-300g/m2 in claims fulfills the requirements of application.

Claims

1. The printing inserts for optical drivers consist of rectangular pattern from which after folding along the

fold line, an envelope is formed, **characterized in that** at the extension of the back wall (2), behind the edge for gluing in (3) the crease (4') forms the closing flap (4), and on the edge for gluing in (5) of the front wall (1) there is at least one hole cut (6).

2. The printing inserts according to claim 1, **characterized in that** parallel to the edge for gluing in (5) of the front wall (1) and the edge for gluing in (3) of the back wall (2) the crease (7) and (7') is performed that forms the upper edge (10) aimed at tearing of the printing inserts out.

3. The printing inserts according to claim 2, **characterized in that** on the edge for gluing in (5) of the front wall (1) there are five holes cut (6).

4. The printing inserts according to claim 3, **characterized in that** crease (7) and crease (7') are a perforation.

5. The printing inserts according to claim 1 and 2, **characterized in that** parallel to folding edge (8) of the envelope, there is a crease (9) and (9') performed, which after folding forms the lower edge (11) of the opening.

6. The printing inserts according to claim 5, **characterized in that** the crease (9) and crease (9') are a perforation.

7. The envelope according to claim 1 and 6, **characterized in that** on the front wall (1) or the back wall (2) there is a window cut (12) at any position.

8. The envelope according to claim 1, **characterized in that** it is made of paper of the grams per square metre of 80-300g/m^2.

9. The printing inserts according to claim 1, **characterized in that** is a set of two printing inserts where two optical drivers can be put next to each other and separated by the crease (13).

10. The printing inserts according to claim 9, **characterized in that** the crease (13) is a perforation.

11. The printing inserts according to claim 1 and 9, **characterized in that** above the folding edge (8) of the printing inserts, on the front wall (1) and/or the back wall (2) the perforation in the shape of half-circle is performed.

12. The printing inserts according to claim 1 and 9, **characterized in that** at the side edge (14) and/or at the side edge (15) there are trimming margins (16) and (16') formed by gluing.

13. The printing inserts according to claim 1 and 9, **characterized in that** at the edge (14) and at the edge (15) there are trimming margins (16) and (16') formed by crease.

14. The printing inserts according to claim 1 and 9, **characterized in that** the surface of the envelope is covered in print.

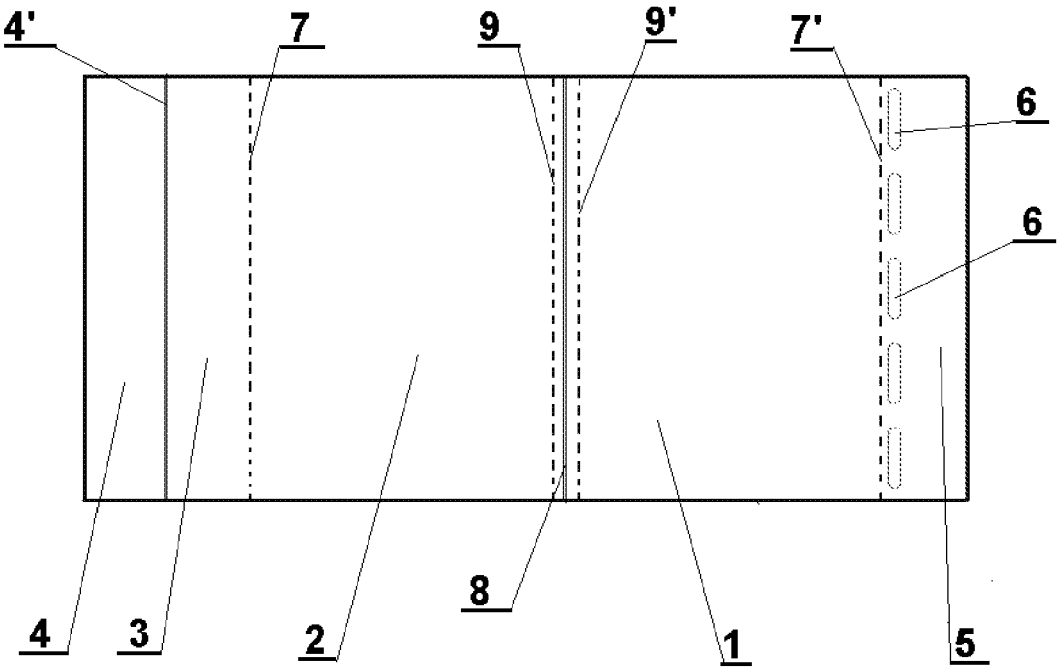

Fig 1

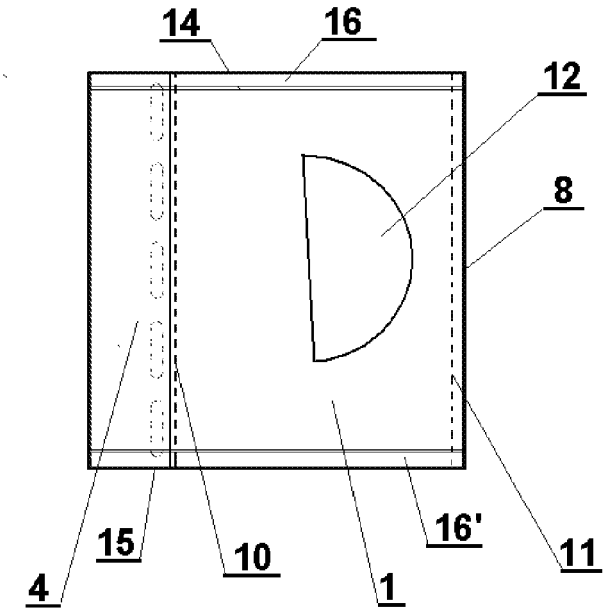

Fig. 2

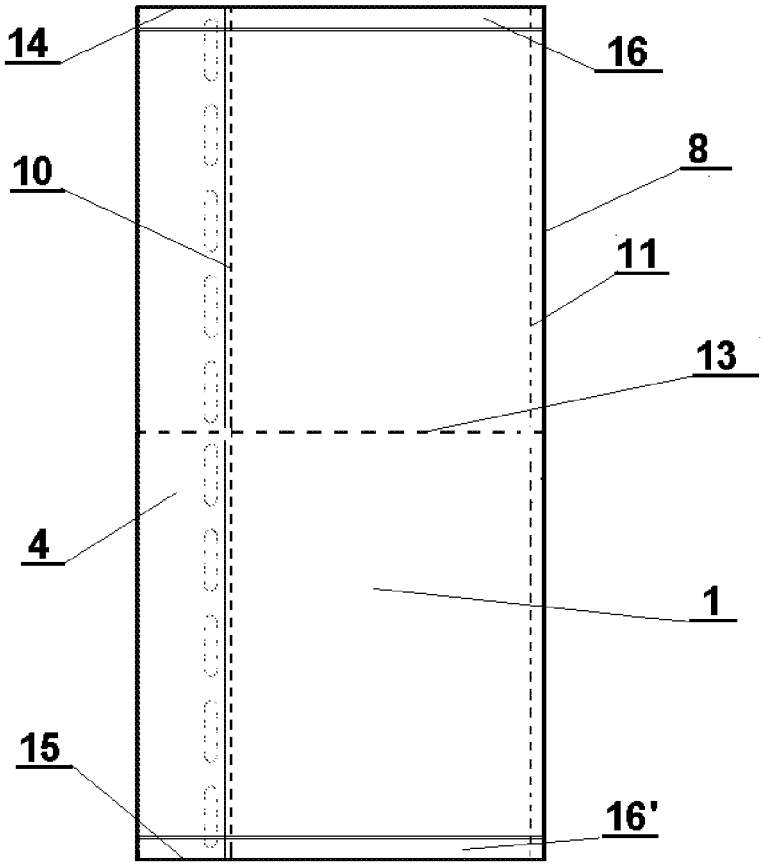

Fig. 3

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

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