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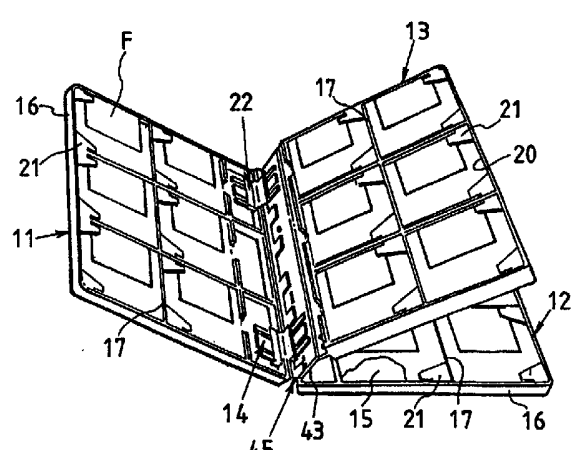
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(57) Abstract A holder (10) is formed by holder members (11, 12), which have a plurality of storage pockets (20), and add-on holder members (13) which can be connected between these holder members (11, 12). The holder members (11, 12) are provided at connection side ends thereof with insertion portions (22), and the add-on holder members (13) mount at connection side ends thereof a back plate (45) having insertion portions (53). A connection member (14) provided with a pair of connection pieces (30) for connecting the respective holder members (11-13) is designed so that the connection pieces (30) are adapted to be inserted into the insertion portions (22, 53).			

(57) 要約

複数の収納ポケット(20)を有するホルダー部材(11, 12)と、これらのホルダー部材(11, 12)間に連結可能な増設用のホルダー部材(13)とによりホルダー(10)が形成されている。ホルダー部材(11, 12)の連結側端部には挿入部(22)が設けられる一方、増設用のホルダー部材(13)の連結側端部には挿入部(53)を有する背板部材(45)が装着されている。各ホルダー部材(11~13)を連結する一对の連結片(30)を備えた連結部材(14)は、前記連結片(30)が挿入部(22, 53)内に挿し込まれるようになっている。

情報としての用途のみ

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ABSTRACT OF THE DISCLOSURE

Holder members (11, 12) having a plurality of accommodation pockets (20) and an extension holder member (13) which can be connected between the holder members (11, 12) form a holder (10). An insertion portion (22) is formed in an end portion of each of the holder members (11, 12). On the other hand, a back-plate member (45) having an insertion portion (53) is attached to an end portion of the connection portion of the extension holder member (13). A connection member (14) having a pair of connection sections (30) for connecting the holder members (11 to 13) to one another has a structure such that the connection sections (30) are inserted into the insertion portions (22, 53).



DESCRIPTION

HOLDER

TECHNICAL FIELD

The present invention relates to a holder, and more particularly to a holder which is capable of arbitrarily increasing or decreasing the quantity of various recording mediums, for example, floppy disks, compact disks, cassette tapes or video tapes, to be accommodated and which permits different states of accommodation to be selected.

BACKGROUND ART

In these days when recording mediums, such as floppy disks, have been made rapid progress, a variety of files, holders and the like suitable to accommodate and store the foregoing recording mediums have been presented. As a known technology, a file has been disclosed in Japanese Utility Model Publication No. 5-32467, the file having pockets arranged to accommodate floppy disks and formed by dividing the opposite inner surfaces of the inside cover and the back cover into a plurality of sections.

However, the maximum number of floppy disks, which can be accommodated in the file of the foregoing type, is limited to the number of the pockets formed on the inner surfaces of the inside cover and the back cover. If floppy disks are intended to be accommodated by a number larger than the number of the pockets, another file must be used. Therefore, if the quantity of floppy disks to be stored has



been enlarged considerably, a plurality of files must inevitably be used. Thus, there arises a problem in that a single file cannot integrally store a large quantity of floppy disks.

On the other hand, in Japanese Patent Publication No. 4-5369 or Japanese Patent Laid-Open No. 6-321279, there have been disclosed holders of a type formed into a single body capable of accommodating a plurality of floppy disks. Each of the holders has a structure comprising binding openings formed at an end portion thereof. Therefore, the openings of the holder can be pierced by the binding rings so that accommodation, which corresponds to increase in the quantity of accommodated floppy disks, is enabled.

In the case of the holder disclosed in Japanese Patent Laid-Open No. 6-321279, another structure is employed which comprises hooks at positions opposite to the portion having the binding openings such that the hooks can be received by a rail for a drawing hanger so that different states of accommodation are selectively provided.

However, the holders disclosed in Japanese Patent Publication No. 4-5369 and Japanese Patent Laid-Open No. 6-321279 are impossible to bind floppy disks if the quantity is larger than the width of the binder for accommodation. Moreover, since each of the holders of the foregoing type has a thickness at least larger than the thickness of the floppy disk, the number of floppy disks,



allowed to be bound, is inevitably limited even if a structure is employed in which the holders can be bound in the binder or the like. Thus, the foregoing method is not a drastic method that is capable of enabling floppy disks, which are gradually increased, to be integrally accommodated.

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Although the holder disclosed in Japanese Patent Laid-Open No. 6-321279 is able to select a state where the holders are accommodated, the hooks project over the end portions opposite to the portion to be bound. Thus, there arises a problem in that the hooks are obstacles when the holder is bound in the binder. Moreover, the quality of the
10 appearances in view of the design has been unsatisfactory.

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SUMMARY OF THE INVENTION

It is the object of the present invention to substantially overcome or at least ameliorate one or more of the above disadvantages.

The present invention in one broad form provides a holder, comprising a pair of
5 holder members each having at least one accommodation pocket for receiving recording media, and a pair of discrete connection members, wherein said pair of holder members are mutually separably connected to each other through said connection members which are detachably attached to ends of said holder members;

10 further comprising at least one extension holder member mounted between said pair of holder members, and means for detachably mounting said at least one extension holder member to said holder members;

wherein said detachable mounting means includes said pair of discrete connection members located along regions of an edge of said at least one extension holder member and being discretely spaced from each other and inwardly spaced from opposite
15 ends of said edge.

Preferably, each connection member includes a pair of connection sections facing each other and a bent portion being disposed between said connection sections, and insertion portions for said connection sections are formed in portions adjacent to said ends of said holder members, said connection sections being insertable

20 The present invention in another broad form provides a holder, comprising a pair of holder members each having at least one accommodation pocket for respectively receiving recording media and at least one connection member, wherein said pair of holder members are mutually separably connected to each other through said at least one connection member which is detachably attached to ends of said holder members;

25 wherein said at least one connection member includes a pair of connection sections facing each other and a bent portion being disposed between said connection sections, and insertion portions for said connection sections are formed in portions adjacent to said ends of said holder members, said connection sections being insertable into said insertion portions so that said holder members are connected to one another;

30 further comprising an extension holder member mounted between said holder members, said extension holder member including a binding member having binding openings formed therein, and a back-plate member having said insertion portions is detachably attached to an end of said binding member.



Preferably, said insertion portions are symmetrically formed along said back-plate member.

The present invention in another broad form provides a holder comprising a holder member including at least one accommodation pocket for storage of recording media formed on each of two surfaces of the holder member, a binding member having binding openings and hook receiving portions in an end thereof, and further comprising at least one hook for a hanger, said at least one hook being reattachably mountable to said binding member.

10 **BRIEF DESCRIPTION OF THE DRAWINGS**

A preferred form of the present invention will now be described by way of example only, with reference to the accompanying drawings, wherein:

Fig. 1 is a schematic perspective view showing an embodiment of a holder according to the present invention;

A 10x10 grid of dots forming the letters 'BIO'. The 'B' is formed by dots at (1,1)-(1,9), (2,1)-(2,9), (3,1)-(3,9), (4,1)-(4,9), (5,1)-(5,9), (6,1)-(6,9), (7,1)-(7,9), (8,1)-(8,9), (9,1)-(9,9), and (10,1)-(10,9). The 'I' is formed by dots at (1,10)-(10,10). The 'O' is formed by dots at (1,1)-(1,9), (2,1)-(2,9), (3,1)-(3,9), (4,1)-(4,9), (5,1)-(5,9), (6,1)-(6,9), (7,1)-(7,9), (8,1)-(8,9), (9,1)-(9,9), and (10,1)-(10,9).



Fig. 2 is a schematic perspective view showing the holder in a state where the holder is opened;

Fig. 3 is an inner plan view showing a state where a pair of inside and outside holder members are connected to each other and they are opened;

Fig. 4 is a plan view showing one of the inside and outside holder members which have been separated from another one;

Fig. 5 is a side view showing a connection portion of the holder member shown in Fig. 4;

Fig. 6 is a side view of a connection member;

Fig. 7 is an end view of the connection member;

Fig. 8 (A) is a plan view showing an extension holder member;

Fig. 8 (B) is an enlarged cross sectional view taken along line A-A of Fig. 8 (A);

Fig. 9 (A) is a side view of a back-plate member;

Fig. 9 (B) is a view showing the back-plate member when viewed from the rear side thereof;

Fig. 10 (A) is a view showing the back-plate member when viewed from the inside thereof;

Fig. 10 (B) is an enlarged cross sectional view taken along line B-B shown in Fig. 10 (A);

Fig. 10 (C) is an enlarged cross sectional view taken along line C-C shown in Fig. 10 (A);

Fig. 11 is a schematic perspective view showing a



state where hooks are attached to the extension holder member; and

Fig. 12 is a schematic perspective view for explaining a method of attaching the connection member.

BEST MODE FOR CARRYING OUT THE INVENTION

An embodiment of the present invention will now be described with reference to the drawings.

Fig. 1 is a schematic perspective view showing a holder according to this embodiment. Fig. 2 is a schematic perspective view showing holder members in a state where the holder members are opened. Fig. 3 is an inner plan view showing a state where an extension holder member is omitted and a pair of inside and back holder members are connected to each other. Referring to these drawings, a holder 10 comprises a pair of inside and outside holder members 11 and 12, an extension holder member 13 attached between the inside and outside holder members 11 and 12, and connection members 14 for mutually connecting the holder members 11 to 13 at their ends.

Each of the pair of inside and outside holder members 11 and 12, as shown in Fig. 3, has plain portions 15, peripheral walls 16 formed on the outer end of each of the plain portions 15 and partition walls 17 for respectively dividing each plain portion 15 into six sections. As a result, accommodation pockets 20 are formed which are capable of accommodating floppy disks F serving as record-



ing mediums. Separation of each floppy disk F accommodated in each of the accommodation pockets 20 is prevented by tag portions 21 formed at corners of the accommodation pocket 20 in such a manner that a gap corresponding to the thickness of the floppy disk F is kept from the plain portion 15.

Also as shown in Figs. 4 and 5, each of the holder members 11 and 12 has, in the connection portions thereof, insertion portions 22, to which connection members 14 are detachably attached. The insertion portion 22 is composed of a cut-out portion 24 formed in the portion of the peripheral wall 16, which is the connection portion, and a frame portion 25 formed apart from the bottom of the cut-out portion 24 for a clearance C. The frame portion 25 is formed at a position on the inside of the peripheral wall 16 for a distance corresponding to the thickness of the peripheral wall 16.

The connection members 14 are, as shown in Figs. 6 and 7, disposed to face each other while a bent portion 29 being interposed therebetween, and has a pair of connection sections 30 each having a thickness with which insertion into the clearance C of the insertion portion 22 is permitted. The bent portion 29 is formed by partially thinning a joint member 31 positioned between connection sections 30. Each connection section 30 has, on the two end portions in the lengthwise direction thereof, cut-out recesses 33 each



of which is formed into a U-like shape. Moreover, tags 30A are formed on the outsides of the cut-out recesses 33 through bent members 34 formed in the cut-out recesses 33. Stepped portions 30B are formed at outer ends of the tags 30A. The stepped portions 30B can be engaged to portions of the insertion portion, that is, the outer ends of the frame portion 25 when the connection section 30 has been inserted into the insertion portion 22. When inward forces act on the outside portions of the tags 30A by the fingers, the tags 30A are able to mutually deform toward the inside while being protected from being broken thanks to the existence of the bent member 34 so that the engagement with the frame portion 25 is suspended. If the forces of the fingers are suspended, returning to the original engagement portions is enabled.

The detailed structure of the extension holder member 13 will now be described. Components similar to those of the inside and outside holder members 11 and 12 are, hereinafter, given the same reference numerals and omitted from description or their descriptions are performed briefly.

As shown in Figs. 8 (A) and 8 (B), the extension holder member 13 has, on the two sides of the plain portions 15 thereof, pockets 20 for accommodating recording mediums. Separation of the floppy disk F accommodated in the accommodation pocket 20 is prevented by tag portions 21. Portions of the plain portion 15 opposite to the tag



portions 21 are formed into punched holes 40.

As shown in Fig. 8 (A), the extension holder member 13 has a binding member 43 comprising a plurality of binding openings 42 formed along the end portion of the connection portion thereof. A back-plate member 45 can be detachably mounted on the end of the binding member 43. The binding member 43 has a bent portion 44 having partially thinned portions in the lengthwise direction thereof. When the extension holder member 13 is bound and connected between the pair of the holder members 11 and 12, the bent portion 44 prevents excess load being applied to the portion in the vicinity of the connected portion to permit the free end to be moved in the direction of rotation. In the binding member 43, a plurality of rectangular opening 46 are formed on substantially the same line on which the binding openings 42 are formed, thus enabling the back-plate member 45 to be received in the rectangular openings 46.

As shown in Figs. 9 and 10, the back-plate member 45 comprises a back-plate body 50 formed into an elongated shape, a pair of back-plate members 51 disposed at the two ends of the back-plate body 50 in the lengthwise direction and positioned apart from each other for a predetermined distance, insertion portions 53 each of which is formed between the back-plate body 50 and the back-plate members 51, and a plurality of holding members 54 (refer to Fig. 10 (A)) formed to project over either surface of the back-



plate body 50 or the back-plate member 51 and positioned alternately to form a gap corresponding to the thickness of the binding member 43 of the extension holder member 13.

Each insertion portion 53 is composed of three narrow frame portions 55, 56 and 57 positioned symmetrically relative to the central frame portion 56. A clearance C formed among the frame portions 55 to 57 has a width which permits the connection section 30 of the connection member 14 to be inserted. The frame portions 55 and 57, among the frame portions 55 to 57 except the central frame portion 56, are somewhat shifted toward the portion in which the holding members 54 are formed. The distance of the foregoing shifting substantially corresponds to the thickness of a connection section 41 of the connection member 14. Therefore, when the connection section 30 has been inserted into the insertion portion 22, the outer surface of the connection section 41 and the outer surface of the back-plate body 50 form the same plane. Among the holding members 54, a portion of the holding members 54 has a claw portion 55A. The claw portions 55A can be received by the rectangular openings 46 formed in the binding member 43. Thus, natural separation of the back-plate member 45 can be prevented.

As shown in Fig. 11, near the two vertical ends (the right and left ends in the figure) of the binding member 43 in the region of the binding member 43, a hook receiving



portion 60 comprising two openings is formed. The hook receiving portion 60 is able to detachably receive a hook 61 which can be attached to a hanger rail (not shown). The hook 61 comprises a pair of right and left hook forming members 63 having a central portion which can be bent. Either hook forming member 63 has two cylindrical portions 64 having shapes with which insertion into the hook receiving portions 60 is permitted. The other hook forming member 63 has pin shafts 65 which can be received in the cylindrical portions 64 in a bent state. Each hook forming member 63 has a recess 66 opened downwards. The recess 66 receives the hanger rail.

A method of assembling and method of use of the holder according to this embodiment will now be described also with reference to Fig. 12.

The description will be performed about the case where the extension holder member 13 is bound between the pair of inside and outside holder members 11 and 12.

Initially, the back-plate member 45 is previously attached to the end of the binding member 43 of the extension holder member 13 (refer to Fig. 8 (A)). The attachment can be performed such that each holding member 54 of the back-plate member 45 is caused to face the end of the binding member 43, followed by inserting the binding member 43 into the spaces among the holding members 54 disposed alternately. Since the claws 54A of the holding members 54



are received in the rectangular openings 46 of the binding member 43 in the state where the attachment has been completed, the back-plate member 45 cannot be separated if external force is not applied.

Then, as shown in Fig. 12, the holder members 11 to 13 are stood erect on a desk or the like while being stacked in such a manner that the positions of the insertion portions 22 and 53 coincide with each other and the insertion portions 22 and 53 are positioned upwardly. In the foregoing state, the connection sections 30 of the connection members 14 are somewhat inserted into the insertion portions 22 and 53 to be positioned across the ends of the holder members 11 to 13. When pushing force is applied from an upper portion, the claws 30A are displaced in a direction in which they approach each other so that insertions of the overall bodies of the connection sections 30 are permitted. Thus, the connection member 14 is inserted to the position at which the outer surface of the joint member 31 of the connection member 14 is positioned on the same plane as the end surfaces of the holder members 11 to 13. At this time, the stepped portions 30B formed at the outer ends of the claws 30A are engaged to the inside portions of the insertion portions 22 and 53 so that separation of the connection member 14 is prevented.

In the state after the foregoing connection operation has been completed, the holder members 11 to 13 are inte-



grated as shown in Fig. 1 so that a holder for accommodating the floppy disks F is used.

In a case where a novel extension holder member 13 is further added between the holder 11 and the extension holder member 13, development, for example, as shown in Fig. 2, is performed. Then, the claws 30A of the connection members 14 of either of the holder 11 or the extension holder member 13 are gripped with fingers from outer portions. When forces are, in the foregoing state, applied in directions in which the claws 30A approach each other, the foregoing engagement is suspended. At this time, pulling of the holder members 11 and 13 in directions in which they are moved apart from each other enables the connection to be suspended. Then, another connection members 14, corresponding to the extension holder member 13 intended to be added, are required to be used in such a manner that the connection members 14 are placed across the end portions, that is, the connection sections 30 of the connection members 14 respectively are inserted into the insertion portions 22 and 53.

The extension holder member 13 may be used in a selected hanging file method as shown in Fig. 11. In this case, the back-plate member 45 is required to be previously removed from the binding member 43, followed by attaching the hook 61 so as to be received in the hook receiving portion 60. The receipt can be performed by previously



inserting the cylindrical portions 64 of the hook forming members 63 into the hook receiving portions 60 and by bending the hook forming member 63 having the pin shafts 65 in a direction indicated by an arrow shown in Fig. 11 so as to cause the pin shafts 65 to be received in the cylindrical portions 64. In a state where the back-plate member 45 and the hook 61 are not attached, the holder member 13 can be filed in a usual binder or the like by using the binding openings 42 of the binding members 43.

Although the embodiment has been described with reference to the drawings about the holder members 11 and 12 positioned on the two sides of the holder 10 and having the flat outer surfaces. The present invention is not limited to this arrangement. That is, the present invention includes, in the scope thereof, a structure in which the holder members 11 and 12 are provided with accommodation pockets 20 on the two sides thereof and thus they are formed into substantially the same structure as the extension holder member 13.

Although the structure is adopted in which the connection members 14 respectively are attached to the two portions along the vertical direction of the holder members 11 to 13, forming of the lengthwise directional length of the connection member 14 to be longer than that according to this embodiment enables mutual connections to be performed at one end portion of the holder members 11 to 13. More-



over, the shape of the connection member 14 is not limited to the shape according to the illustrated embodiment. Thus, a variety of shapes may be adopted if substantially the same results can be attained.

The shapes of the hook receiving portions 60 formed in the binding member 43 of the extension holder member 13 are determined depending upon the relationship with the shapes of the hooks 61 to be attached. Therefore, the shapes are not limited to the round openings as illustrated. For example, the hook receiving portions 60 may be formed into pins projecting over the two surfaces of the binding member 43 in place of the round openings. In the case, openings to be press-fit into the pins can be considered to be formed in the hook 61.

Although the holder members 11 to 13 adopt the accommodation pockets 20 suitable to accommodate the floppy disks F, the holder according to the present invention can, of course, accommodate the other recording mediums. In a case where, for example, compact disks are intended to be accommodated, it is sufficient to form the shape of the accommodation pocket into a circular shape and to provide an appropriate holding portion for the central portion or the outer portion to hold the disks. In addition, the present invention is not limited to the plural accommodation pockets 20 formed on each surface of the holders 11 to 13. A structure having one accommodation pocket 20 may be



adopted. Since a recording medium, such as a laser disk, has a large diameter, the number of the accommodation pocket 20 is inevitably made to be one.

Since the present invention has the foregoing structure and act as described above, the following effects can be obtained.

That is, since the structure is arranged in such a manner that the connection members capable of arbitrarily connecting and separating the holder members are adopted and the connection members can be inserted into the insertion portions of each of the holder members, a single holder can be constituted in a state where a multiplicity of holder member are connected to one another. Thus, recording mediums can concentrically be stored and controlled.

Since the connection member comprises a pair of connection sections facing each other while the bent portion being interposed and has a characteristic with which it can be mass-produced by using a resin material, a necessity of using a costly binder or the like can be eliminated thanks to the connection members which can be provided with a low cost. Moreover, since the present invention is intended to progressively consider the extension-type holder, a consumer is simply required to purchase only the extension holder which can be provided as a single body. Therefore, a user is able to obtain an economical advantage.



In addition, since the extension holder can be used in such a manner that the holder members are separated from one another to select a method of usage from a variety of methods, adaptation to a variety of needs of customers can be performed and, therefore, the value as the commodity can further be improved.

INDUSTRIAL APPLICABILITY

The present invention can be used as a holder suitable to collectively accommodate and control recording mediums, such as floppy disks.



The claims defining the invention are as follows:

1. A holder, comprising a pair of holder members each having at least one accommodation pocket for receiving recording media, and a pair of discrete connection members, wherein said pair of holder members are mutually separably connected to each other through said connection members which are detachably attached to ends of said holder members;

further comprising at least one extension holder member mounted between said pair of holder members, and means for detachably mounting said at least one extension holder member to said holder members;

wherein said detachable mounting means includes said pair of discrete connection members located along regions of an edge of said at least one extension holder member and being discretely spaced from each other and inwardly spaced from opposite ends of said edge.

2. A holder according to claim 1, wherein each connection member includes a pair of connection sections facing each other and a bent portion being disposed between said connection sections, and insertion portions for said connection sections are formed in portions adjacent to said ends of said holder members, said connection sections being insertable into said insertion portions so that said holder members are connected to one another.

3. A holder, comprising a pair of holder members each having at least one accommodation pocket for respectively receiving recording media and at least one connection member, wherein said pair of holder members are mutually separably connected to each other through said at least one connection member which is detachably attached to ends of said holder members;

wherein said at least one connection member includes a pair of connection sections facing each other and a bent portion being disposed between said connection sections, and insertion portions for said connection sections are formed in portions adjacent to said ends of said holder members, said connection sections being insertable into said insertion portions so that said holder members are connected to one another;

further comprising an extension holder member mounted between said holder members, said extension holder member including a binding member having binding



openings formed therein, and a back-plate member having said insertion portions is detachably attached to an end of said binding member.

4. The holder of claim 3, wherein said insertion portions are symmetrically
5 formed along said back-plate member.

5. A holder comprising a holder member including at least one accommodation pocket for storage of recording media formed on each of two surfaces of the holder member, a binding member having binding openings and hook receiving
10 portions in an end thereof, and further comprising at least one hook for a hanger, said at least one hook being reattachably mountable to said binding member.

6. A holder substantially as hereinbefore described with reference to the accompanying drawings.

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Kokuyo Co., Ltd.

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SPRUSON & FERGUSON



FIG. 1

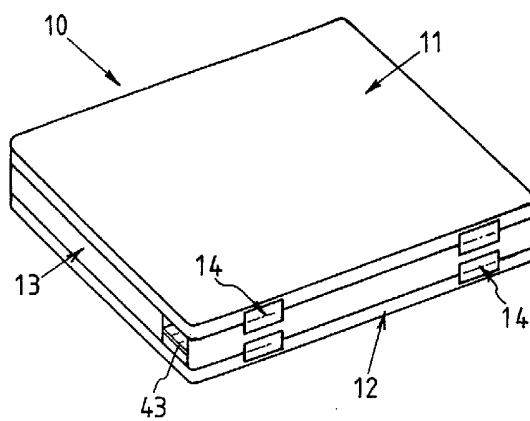


FIG. 2

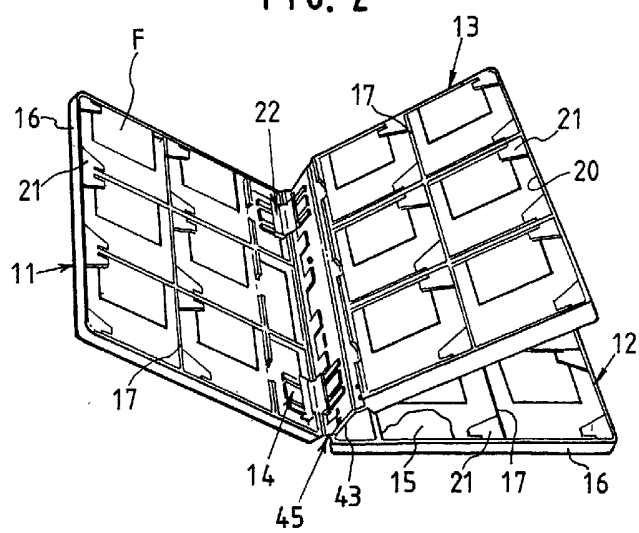


FIG. 3

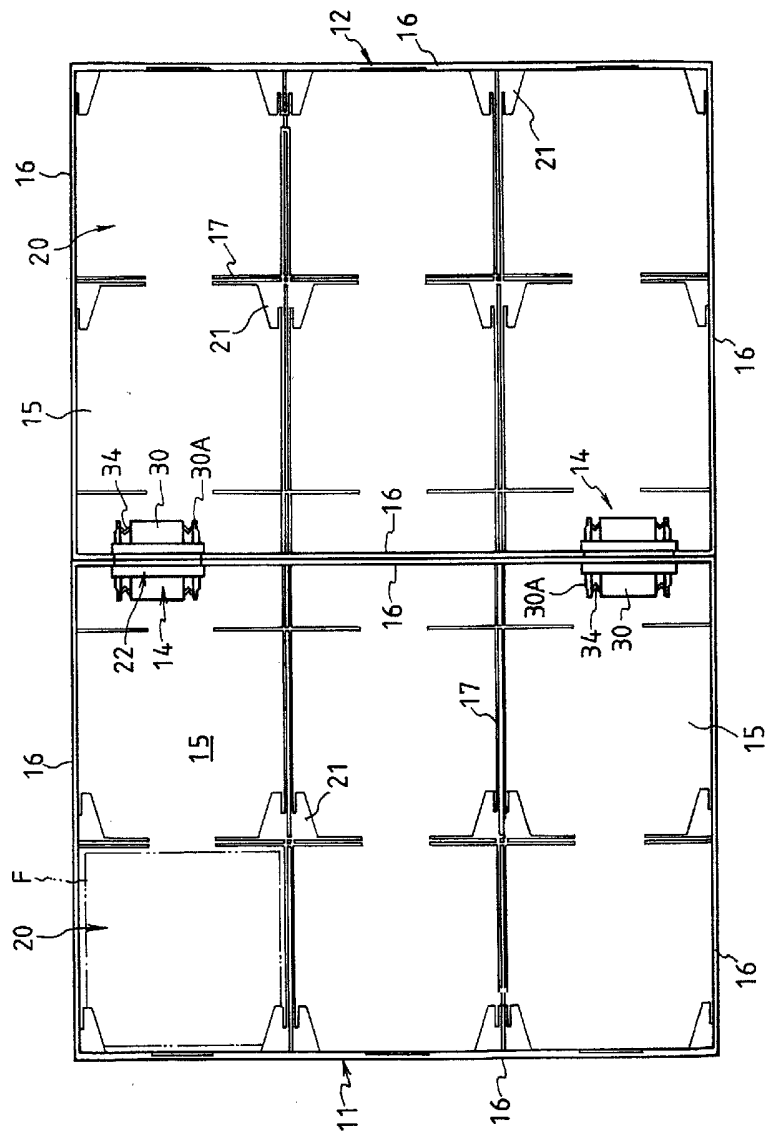


FIG. 4

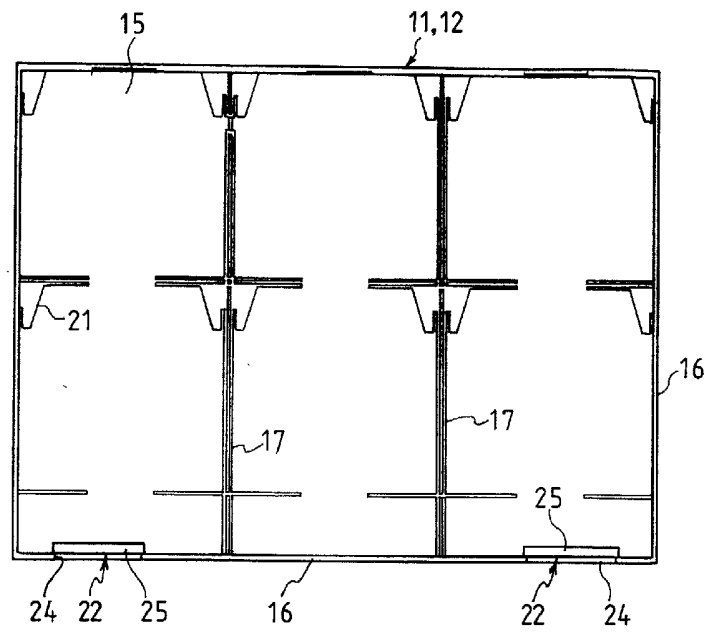


FIG. 5

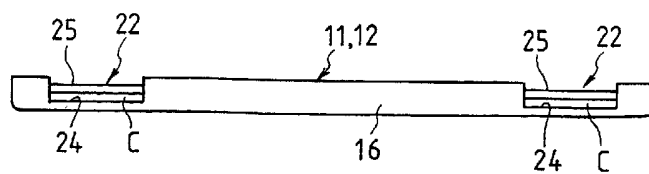


FIG. 6

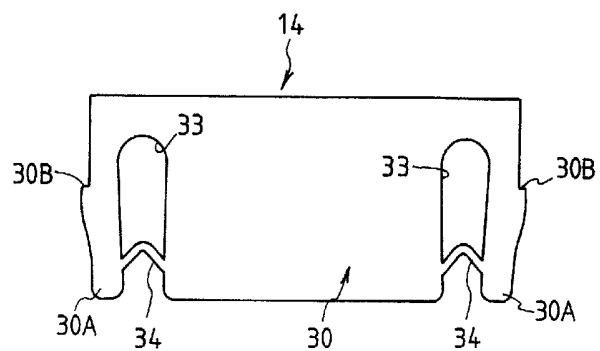


FIG. 7

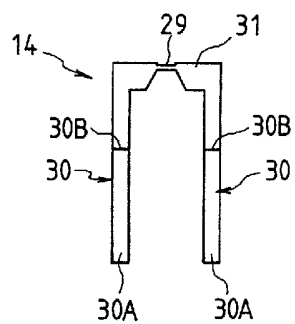


FIG. 8 (A)

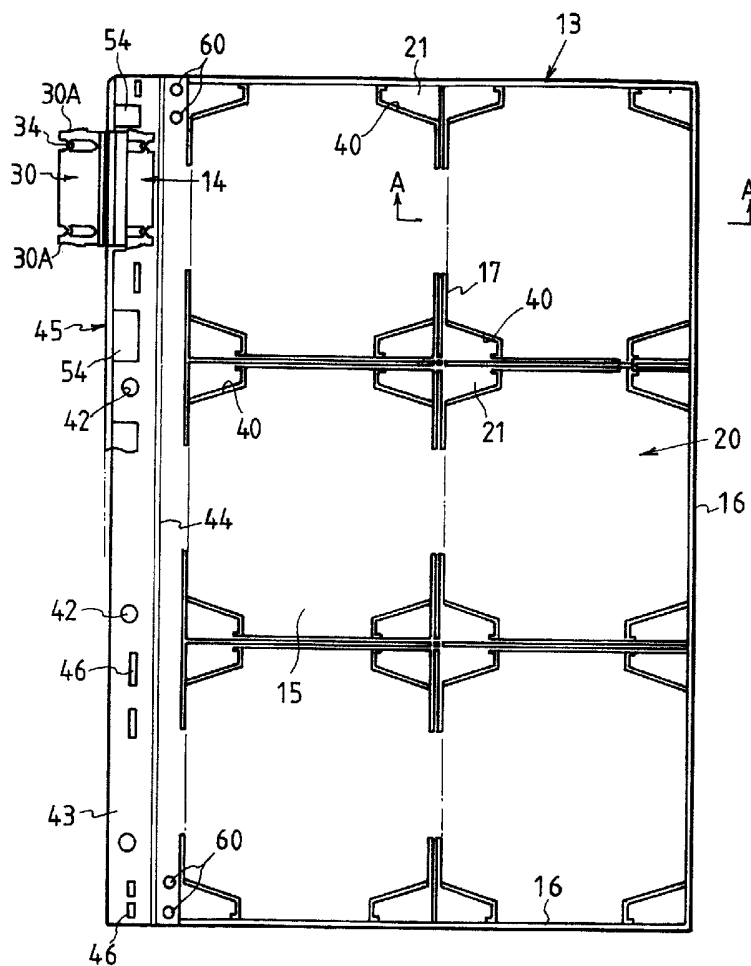


FIG. 8 (B)

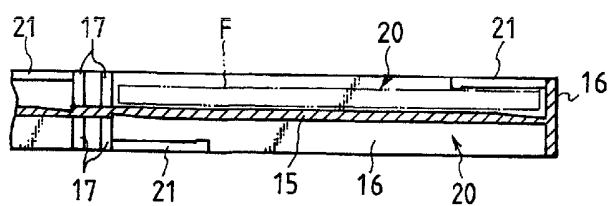


FIG. 9 (A)

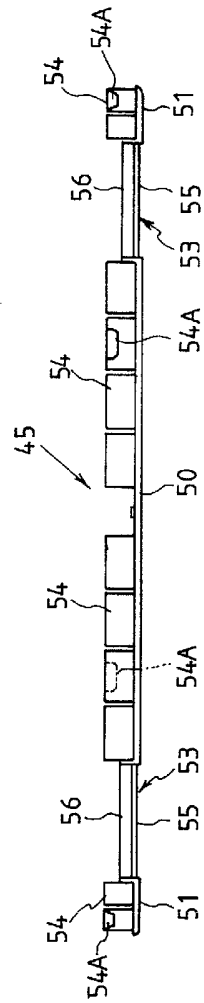


FIG. 9(B)

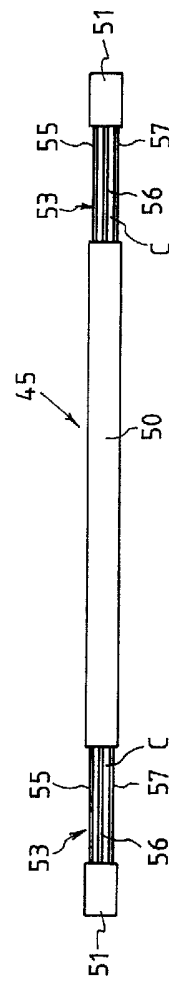


FIG. 10 (A)

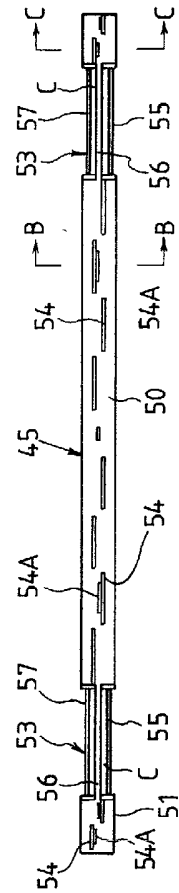


FIG. 10 (B)

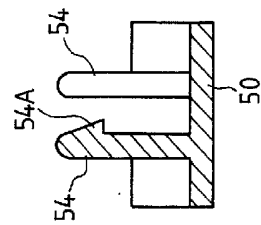


FIG. 10 (C)

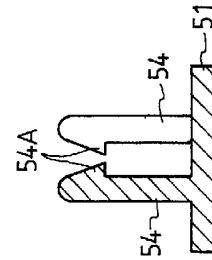


FIG. 11

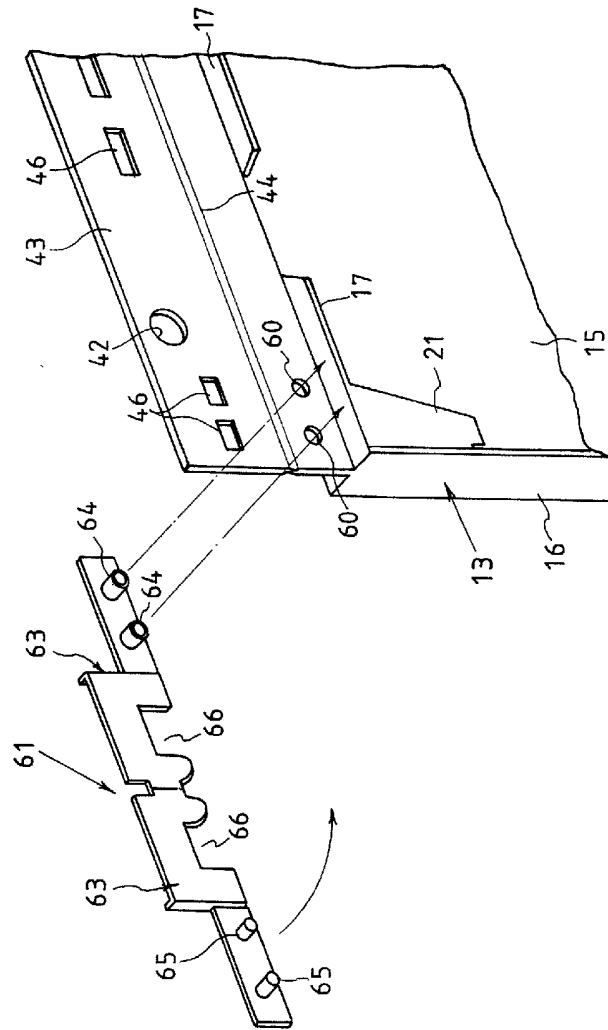


FIG. 12

