May 21, 1957 A. L. GRAMMER 2,792,981

FILES

Filed Dec. 4, 1952 3 Sheets-Sheet 1

Fig. 2

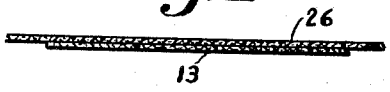


Fig. 1

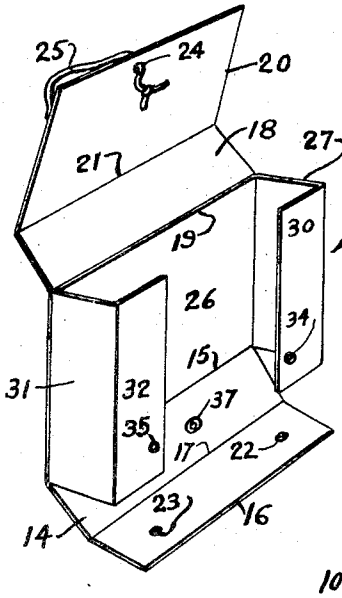


Fig. 3

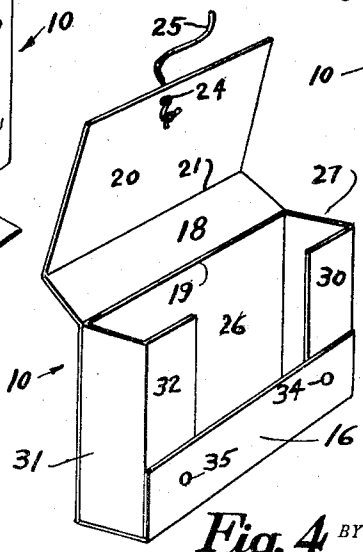


Fig. 4

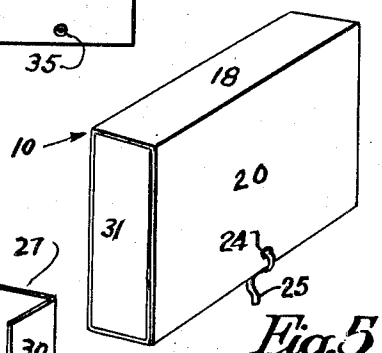


Fig. 5

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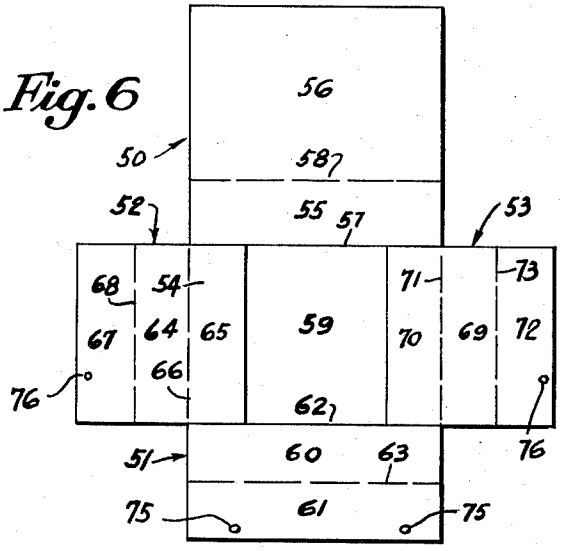
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Fig. 6



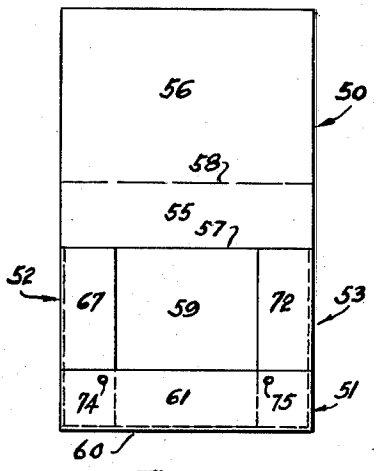


Fig. 7

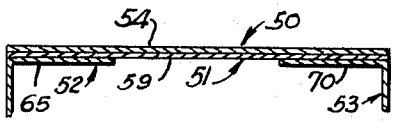


Fig. 10

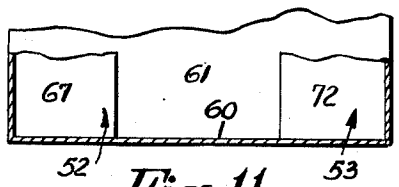


Fig. 11

Fig. 9

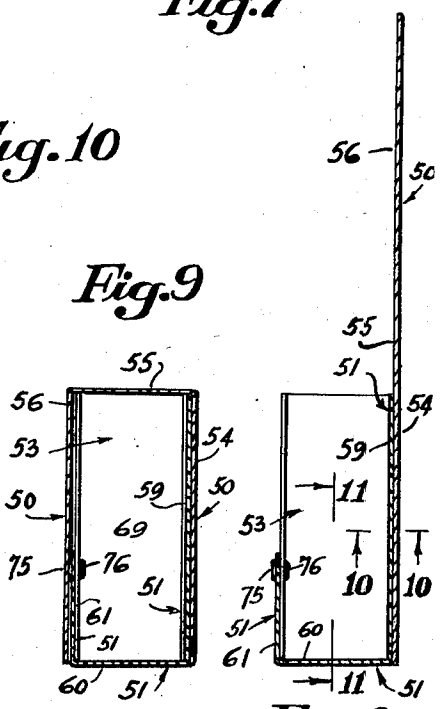


Fig. 8

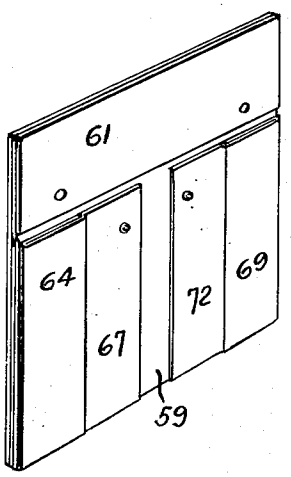


Fig. 11a

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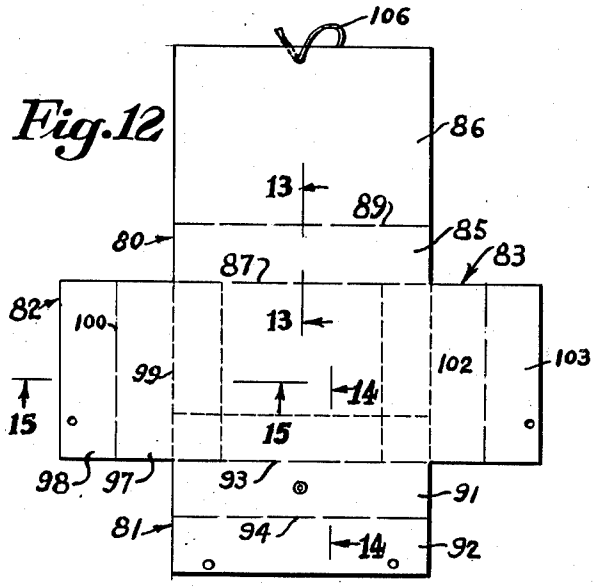


Fig. 12

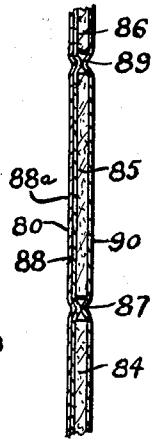


Fig. 13

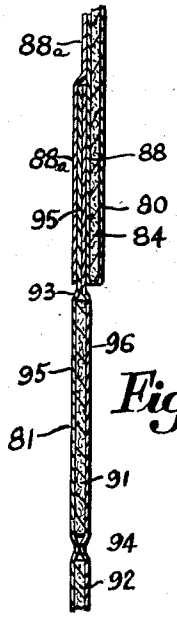


Fig. 14

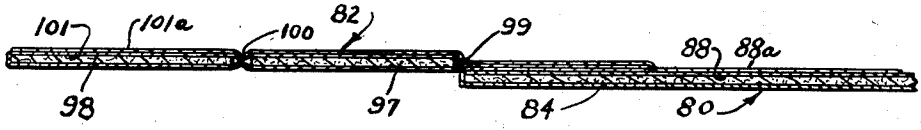


Fig. 15

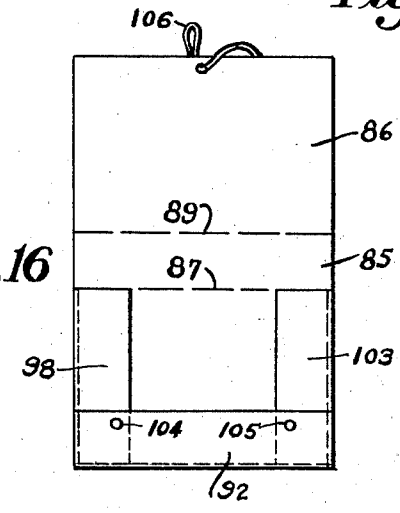


Fig. 16

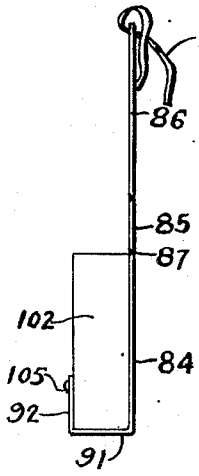


Fig. 17

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United States Patent Office 2,792,981 Patented May 21, 1957

2,792,981

FILES

Allen L. Grammer, Montclair, N. J.

Application December 4, 1952, Serial No. 324,057

1 Claim. (Cl. 229—16)

This invention relates to improvements in files for the storage of loose papers, clippings, and the like.

It is an object of the instant invention to disclose a simple and rugged file for the convenient storage of loose papers, pamphlets, booklets, etc.

Another object is to disclose a file that requires little storage space when knocked down, but which can be quickly formed into a receptacle.

A further object is to disclose a file in the production of which waste has been reduced to a minimum.

Other objects of the instant invention will become apparent in the course of the following specification.

In the attainment of the aforesaid objectives, the improved file is made in three forms. In the first form, the file is constituted of two rectangular members, one of which is divided along fold lines into a rectangular back member having at one end an integrally formed rectangular top and front cover member and at the opposite end integrally formed bottom and lower front members. The second blank is divided along fold lines into a rectangular back member with integrally formed rectangular end and front-side members at both ends. The back member of the second blank is superposed on the back member of the first blank with the integrally formed end and front-side members protruding from opposite ends of the superposed blanks. The bottom and lower front members of the first blank and the end and front-side members of the second blank are turned along the fold lines and fastened to form a receptacle with open top and substantially open front, the top cover member of the first blank forming a closure for the open top of the receptacle when the front cover member is over the substantially open front thereof. In the second form, the file is constituted of four main rectangular members, one of which is divided into a rectangular back member having along one side hingedly secured top and front cover members. The second main member is divided into a rectangular back member with hingedly secured bottom and lower front members along one side. The third and fourth main members are similar end sections each of which is constituted of an end member having a fastening strip hingedly secured along one side and a front-side member along the opposite side. The back member of the second main member is superposed on the back member of the first main member with the hingedly attached bottom and lower front members thereof protruding from the first main member along the side opposite the top and front cover members thereof. The fastening strips of each end section are superposed on opposite ends of the back member of the second main member with the end and front-side members outwardly directed on opposite ends of both superposed back members. In the third form, the file is also constituted of four main rectangular members, one of which is constituted of a back member having along one side hingedly secured top and front cover members. Along the opposite side of the back member are the hingedly secured bottom and lower front members. End sections constituting hingedly secured end and front-side

members are hingedly attached at each end of the back member. Outside and inside covering for the members provide a means for hingedly securing the top and front cover members to the back member, and the bottom and lower front members and the end sections to the back member.

The invention will appear more clearly from the following detailed description when taken in conjunction with the accompanying drawings, showing by way of example the preferred embodiments of the inventive concept.

In the drawings:

Figures 1–5 show the first form of the file constructed in accordance with the principles of this invention, and in which:

Figure 1 is a plan view of the two superposed blanks from which the file is formed;

Figure 2 is a sectional view along **2—2** of Figure 1;

Figure 3 is a perspective view of the partially folded file formed from the blanks shown in Figure 1;

Figure 4 is a perspective view similar to Figure 3 but with the file completely folded and the cover members open; and

Figure 5 is a view similar to Figure 4 but with the cover members closed.

Figures 6–11*a* show the second form of the file, and in which:

Figure 6 is a plan view of the four main members from which the file is formed;

Figure 7 is a front view of the file folded from the members shown in Figure 6 with the cover members open;

Figure 8 is an end view of the file shown in Figure 7;

Figure 9 is a view similar to Figure 8 but with the cover members in the closed position;

Figure 10 is a sectional view along **10—10** of Figure 8;

Figure 11 is a sectional view along **11—11** of Figure 8; and

Figure 11*a* is a view of the four main members shown in Figure 6 folded for storage or shipping.

Figures 12–17 show the third form of the file, and in which:

Figure 12 is a plan view of the four main members from which the file is made;

Figure 13 is a sectional view along **13—13** of Figure 12 but on an enlarged scale;

Figure 14 is a sectional view along **14—14** of Figure 12, also enlarged,

Figure 15 is a sectional view along **15—15** of Figure 12, likewise enlarged;

Figure 16 is a front view of the file formed from the four main members shown in Figure 12 with the cover members open, and

Figure 17 is an end view of the file shown in Figure 16.

Referring now in greater detail to the first form of the file shown in Figures 1–5, reference numeral **10** indicates the file.

The file **10** is formed from the superposed blanks **11** and **12**.

The blank **11** is a rectangular body made from any suitable material and is constituted in part of the back member **13** most clearly seen in Figure 2, the bottom member **14** hingedly secured at one end of the back member **13** along the fold or scored line **15**, and the lower front member **16** hingedly secured to the bottom member **14** along the fold or scored line **17**. The blank **11** is further constituted of the top cover member **18** hingedly secured to the back member **13** along the fold or scored line **19**, and the front cover member **20** hingedly secured to the top cover member **18** along the fold or scored line **21**. It will be noted that the bottom and the lower front members as well as the top and front cover members are of rectangular form with the width of the bottom member **14** and the top cover member **18**

approximately equal and with the height of the front cover member **20** substantially equal to the corresponding dimensions of the back member **13**. The lower front member **16** is provided adjacent the ends with one-half of the known snap fasteners **22** and **23**, while the front cover member **20** has an aperture **24** formed therein for the insertion of the flexible fastening cord **25**.

The blank **12** is also a rectangular body made from the same or similar material used in the production of the previously mentioned blank **11**. The blank **12** is constituted of the back member **26** superposed on and secured by any suitable means, such as gluing, to the back member **13** of the blank **11** (Fig. 2). At one end of the back member **26** is integrally formed the end member **27** hingedly secured thereto along the fold or scored line **28**. Integrally formed with the end member **27** along the fold or scored line **29** is the front-side member **30**. At the opposite end of the back member **26** is the integrally formed end member **31** hingedly secured along the fold or scored line **36**. Integrally formed with the end member **31** along the fold or scored line **33** is another front-side member **32**. The perpendicular distance between the fold or scored lines **28** and **29** of the end member **27** as well as the perpendicular distance between the fold or scored lines **33** and **36** of the end member **31** is approximately equal to the width of the bottom member **14** and the top cover member **18**. The widths of the front-side members **30** and **32** and the lower front member **16** may be varied, but to avoid covering the front of the file when the cover members are in the open position (Fig. 4), the front-side members **32** and **30** are preferably made with a width less than one-half the length of the fold or scored line **15** or **19** while the width of the lower front member **16** is made less than the height of the superposed back members. In the front-side members **32** and **30** are the portions **34** and **35**, respectively, of known snap fasteners coacting with the previously mentioned portions **22** and **23**, respectively, on the lower front member **16**.

In operation:

After the back members **13** and **26** have been superposed and secured by any suitable means such as gluing, the end members **31** and **27** are turned upwardly at 90° to the plane of the superposed back members, and the front-side members **32** and **30** are turned inwardly at 90° to the planes of the turned end members **31** and **27**, respectively. The turning of the end member **31** is along the scored line **36**, the end member **27** along the scored line **28**, the front-side member **32** along the scored line **33**, and the front-side member **30** along the scored line **29**. The bottom member **14** is then turned upwardly at 90° to the planes of the superposed back members **13** and **26** along the scored line **15**, and the lower front member **16** is turned at 90° to the plane of the turned bottom member **14** along the scored line **17**, whereupon the prearranged portions **35** and **34** of the snap fasteners as well as the portions **23** and **22** will be in position for fastening to provide a receptacle with open top and substantially open front (Fig. 4). By folding the top cover member **18** in the same direction as the end members along the fold or scored line **19** and the front cover member **20** along the fold or scored line **21** (Figs. 3 and 4), a complete closure for the receptacle is provided, the covers being removably attached to the bottom member **14** by fastening the free end of the cord **25** to the anchor **37** (Figs. 1 and 3).

Referring now in greater detail to the second form of the file shown in Figures 6–11*a*, the file (Figs. 8 and 9) is formed from the rectangular main members **50**, **51**, **52**, and **53**.

The main member **50** is constituted of the rectangular back member **54** along one side or at the top of which is the rectangular top cover member **55** and the rectangular front cover member **56**. The top cover member **55** is hingedly secured to the back member **54** along the line **57** by any suitable means and the front cover member **56** is hingedly secured to the top cover member **55** along the line **58**. Any known means, such as flexible inner and outer coverings (not shown) may be used for hingedly securing the members together.

The second main member **51** is constituted of a back member **59** designed to be superposed on and secured to the previously described back member **54**. Along the bottom of the back member **59**, that is, the side opposite to the aforementioned top and front cover members is a rectangular bottom member **60** and a rectangular lower front member **61**. One edge of the bottom member **60** is hingedly secured to the bottom of the back member **59** along the line **62** while the lower front member **61** is hingedly secured to the bottom member **60** along the line **63**.

The third and fourth rectangular main members **52** and **53** constitute similar end sections. The third main member **52** is constituted of an end member **64**, the fastening strip **65** hingedly secured to the end member **64** along the line **66** and the front side member **67** hingedly secured to the end member **64** along the line **68**. The fourth main member **53** is constituted of an end member **69** and the front side member **72** hingedly secured to the end member **69** along the line **71** and the fastening strip **70** hingedly secured to the end member **69** along the line **71**.

The width of the end members **64** and **69**, the top cover member **55**, and the bottom member **60** are made substantially equal while the front cover member **56** has dimensions corresponding to those of the superposed back members. The coacting snap fasteners **75** and **76** are positioned for removable engagement when the blanks are folded into a file, as illustrated. While the various portions of the end sections, as well as the top and front cover members and the bottom and lower front members may be hingedly secured together along corresponding edges by any suitable means, such as inner linings and outer bindings, the end sections may be integrally formed and divided along spaced parallel scored lines. In a similar manner the front and top cover members may be integrally formed with the back member **54** and the bottom and lower front members with the back members **59** with the linings and bindings used as reinforcements.

The superposed blanks of the second form of the file shown in Figure 6 can be compactly folded for storage and shipping, as shown in Figure 11*a*. In Figure 11*a*, the end and front-side members of the rectangular main members **52** and **53** are folded inwardly with the end member **64** of the main member **52** superposed on the fastening strip **65**, the end member **69** of the main member **53** superposed on the fastening strip **70**, and both front-side members **67** and **72** of the main members superposed on the back member **59**. The top cover member **55** and front cover member **56** are then turned back under the back member **54** with the bottom of the front cover member protruding beyond the corresponding edges or bottoms of the folded down end and front-side members for a distance equal to the width of the bottom member **60**, the top cover and bottom members having equal widths. By making the width of the lower front member **61** substantially equal to the width of the bottom member **60**, the lower front member **61** can be turned upwardly adjacent the bottom edges of the folded down end and front-side members of the main members **52** and **53** to form a rectangular multi-layer body (Fig. 11*a*) readily adapted for storage and shipping.

Referring now in greater detail to the third form of the file shown in Figures 12–17, the file (Figs. 16 and 17) is formed from the rectangular main members **80**, **81**, **82**, and **83**.

The main member **80** is constituted of the rectangular

back member **84** along one side or at the top of which is the rectangular top cover member **85**, and the rectangular front cover member **86**. The top cover member **85** is hingedly secured to the back member **84** along the line **87** by the inner flexible linings **88** and **88***a* which are glued to the inner surface of the back member **84** and the top cover member. The inner flexible linings **88** and **88***a* are extended upwardly for the hinged attachment in a similar manner of front cover member **86** along the line **89**. The hinged attachment of the top and front cover members is reinforced by an outer binding **90** which is glued to the outer surfaces of the back and top and front cover members.

The second main member **81** is constituted of the rectangular bottom member **91** and the rectangular lower front member **92**. The bottom member **91** is hingedly secured to the back member **84** along the line **93** while the lower front member **92** is hingedly secured to the bottom member **91** along the line **84** by a flexible inner lining **95** which is glued to the inner surface of the back member and then extended downwardly to be affixed to the inner surface of the bottom and lower front members. The previously mentioned inner lining **88***a* at the bottom may be superposed on and secured to the inner lining **95**, as shown in Figure 14. An outer binding member **96** may be used to reinforce the hinged edges on the outside.

The rectangular main members **82** and **83** are similar end sections. The main member **82** is constituted of the end member **97** and the front-side member **98**, the end member **97** being hingedly secured to the back member **84** along the line **99** and the front-side member being hingedly secured to the end member **97** along the line **100**. Any suitable means, such as the inner lining **101** and **101***a* may be glued to the inner surfaces of the front and end-side members and substantially over the contiguous surface of the back member **84** between the inner linings **88** and **88***a*, as shown in Figure 15. The main member **83** is constituted of the end member **102** and the front-side member **103** similar to the previously described end and front-side members of the main member **82** and hingedly secured to each other and to the back member in the same manner as the main member **82**.

As in the other forms of the file, the top cover member **85**, the bottom member **91** and the end members **97** and **102** have the same width while the front cover member **86** has the same dimensions as the back member **84**. The back member **84** together with the top cover member **85** and front cover member **86** may be integrally formed and separated along spaced scored lines. In the same way the bottom member **91** and the lower front member **82**, and the similar end members **97** and **102** and front-side members **98** and **103** may be integrally formed and separated along spaced fold or scored lines. The folding of the file of the third form will be apparent from the foregoing, the lower front and front-side members being held together in the folded position by the snap fasteners **104** and **105** while the flexible strand **106** may be used to secure the cover members in place as in the first form.

While there are above disclosed but three forms of the file, each of which could be made to fold flat for storage or shipping, it is possible to produce still other forms without departing from the inventive concept herein disclosed, and it is desired therefore that only such limitations be imposed on the appended claim as are stated therein.

What is claimed is:

A file comprising an element having a substantially rectangular back member, a top cover member and a front cover member along one edge, said top cover member being hingedly secured to said back cover member along corresponding edges and said front cover member being hingedly secured to said top cover member along corresponding edges, said front cover member having dimensions substantially equal to the corresponding dimensions of said back cover member; the file further comprising a second element having a second back cover member superposed in the first mentioned back cover member, the second mentioned back cover member having a bottom member and a lower front member along one edge of said bottom member, said bottom member having a width substantially equal to the width of said top cover member and being hingedly secured along one edge of the second mentioned back cover member; the file further comprising two further elements, each of said further elements comprising an end section for each end of the second mentioned back member, each end section comprising a fastening strip and an end member and a front-side member, said fastening strip and end and front-side members being hingedly secured along corresponding edges and the width of said end member being substantially equal to the width of said top member, means for hingedly securing said fastening strip to the second mentioned back member with the end and front-side members protruding from opposite ends of the superposed back members, and means for removably securing together the lower front member and the front-side members in juxtaposition and adapted to form a receptacle with open top and substantially open front, all said elements being rigid, said front cover member being foldable over said back member and said front-side members being foldable over said back member, whereby all said elements form a flat rectangular body when folded.

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