Sept. 27, 1960 B. D. OSTEEN 2,954,034

HOLDER FOR PUNCHED SHEETS

Filed Jan. 14, 1959 3 Sheets-Sheet 1

Fig. 2

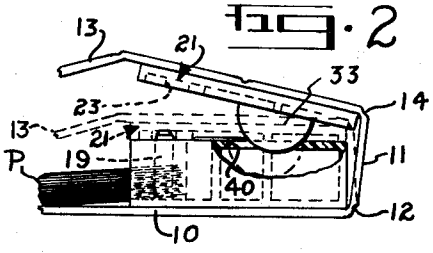


Fig 1

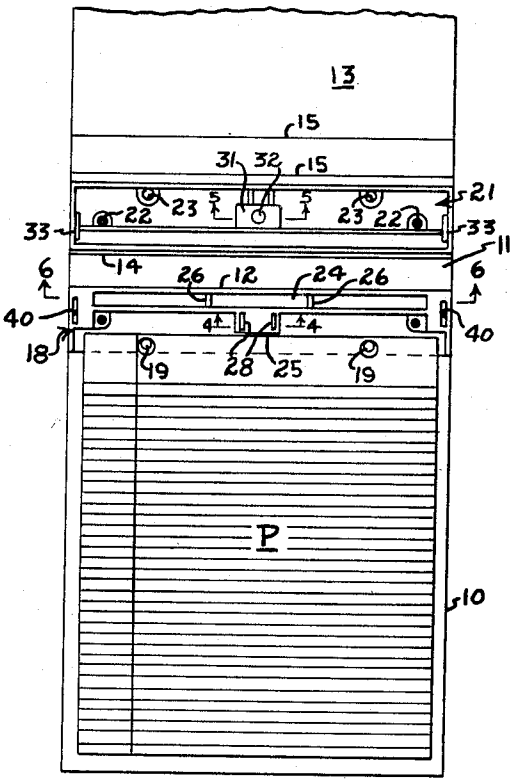
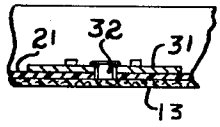


Fig 5



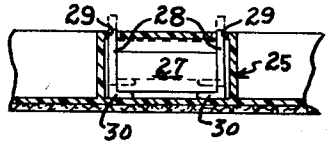
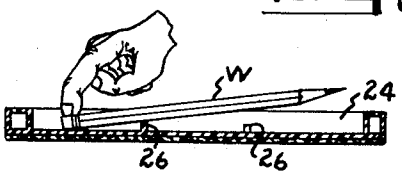


Fig 4

Fig 6



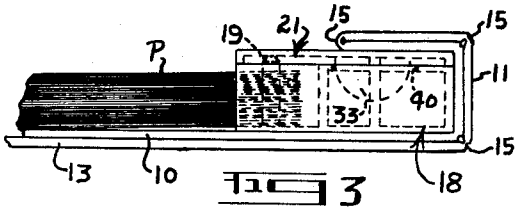


Fig 3

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HOLDER FOR PUNCHED SHEETS

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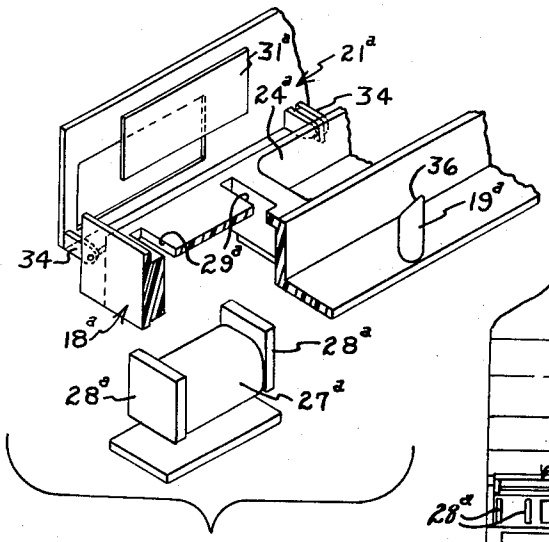


Fig. 10

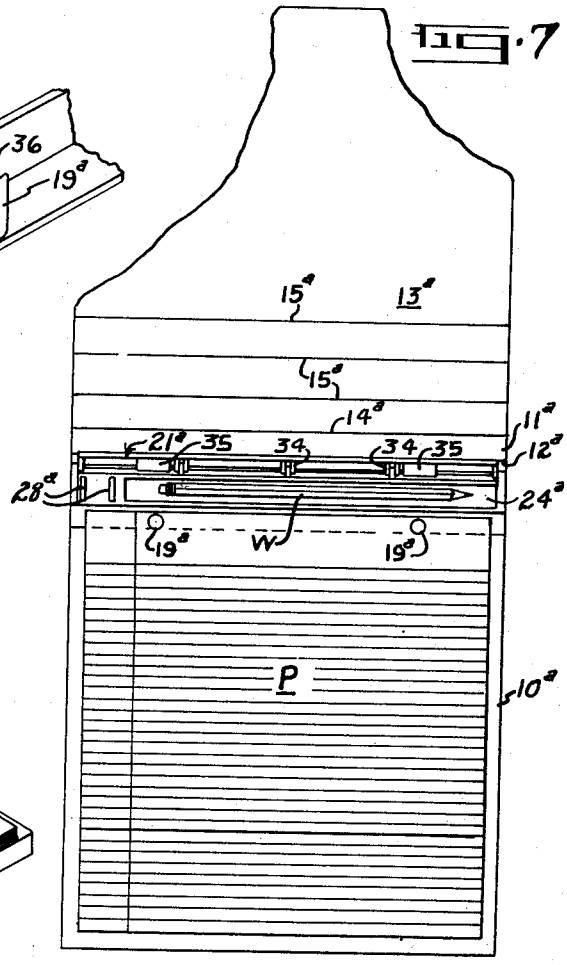


Fig. 7

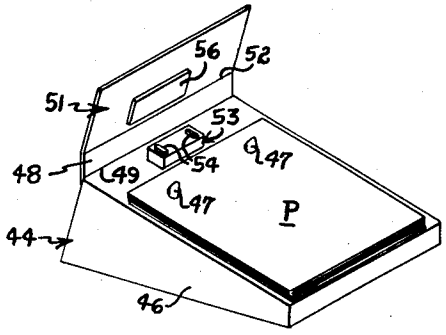


Fig. 14

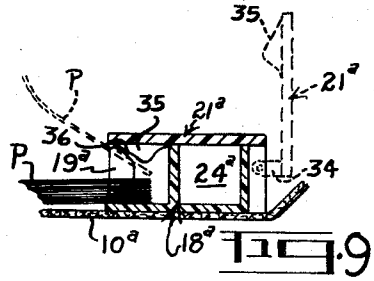


Fig. 9

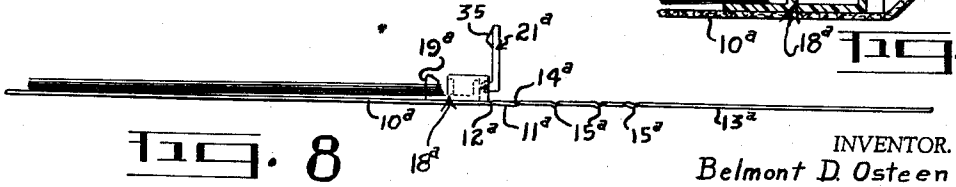


Fig. 8

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HOLDER FOR PUNCHED SHEETS

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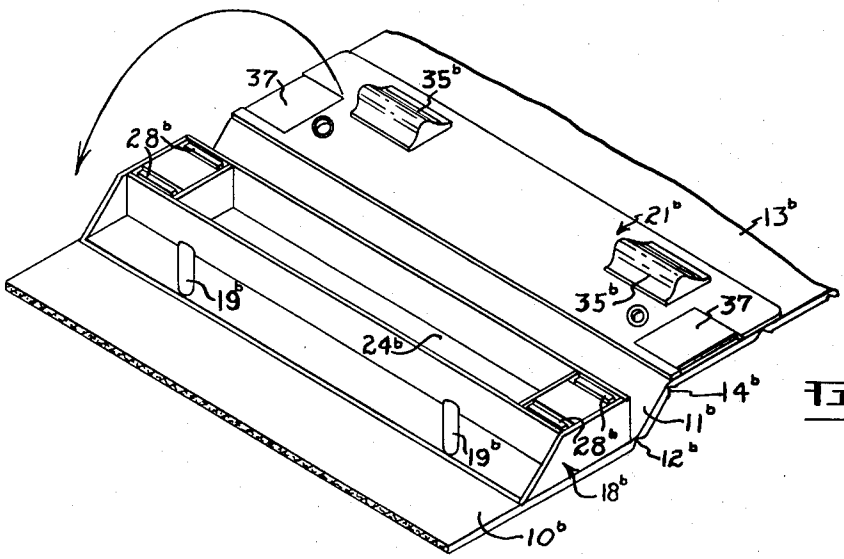


FIG. 11

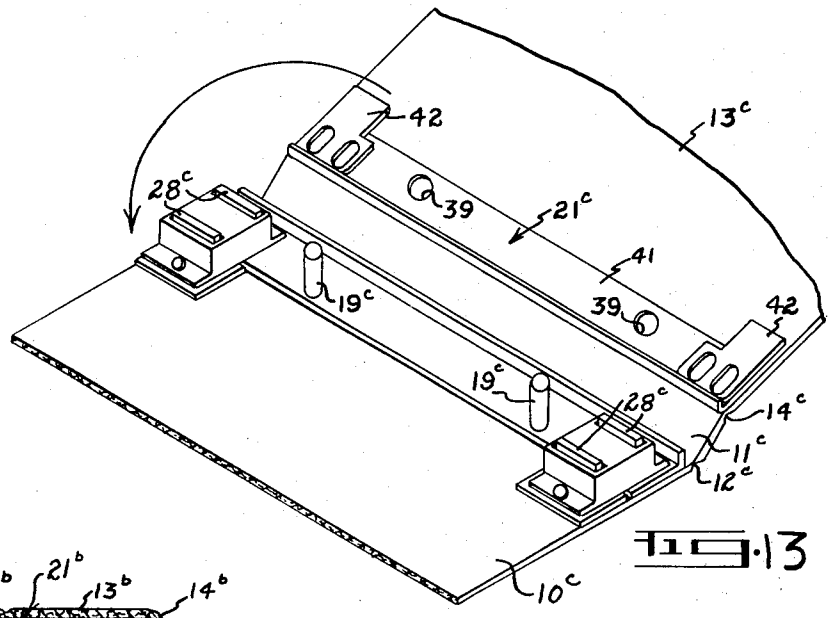


FIG. 13

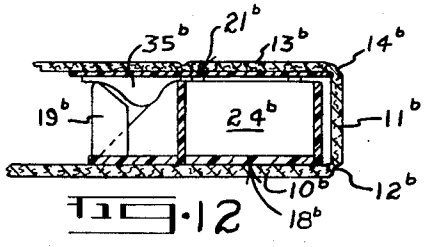


FIG. 12

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United States Patent Office 2,954,034 Patented Sept. 27, 1960

2,954,034

HOLDER FOR PUNCHED SHEETS

Belmont D. Osteen, Birmingham, Ala., assignor, by mesne assignments, to St. Regis Paper Company, New York, N.Y., a corporation of New York

Filed Jan. 14, 1959, Ser. No. 786,751

7 Claims. (Cl. 129—23)

This invention relates to holders for punched paper sheets and more particularly to means for releasably holding paper sheets in position on a pin passing through a hole in the sheets.

Heretofore, in securing paper sheets on an elongated member such as a pin, it has been common to provide a detachable member fitting over and secured to the projecting end of the pin in some manner such as being threaded onto the pin. This arrangement requires considerable time in the removal of paper from the pin as it is necessary that the detachable member be unscrewed or otherwise detached before the paper is removed, unless the paper is torn from the pin.

It is an object of the present invention to provide holders for punched sheets having a pin engaging or covering means hingedly supported adjacent the pin on which pin paper sheets or the like are retained, with the covering means being "snapped" between an open position to permit insertion and withdrawal of the paper sheets and a closed position in contact with the pin to keep the paper sheets from slipping off the pin.

A further object of the invention is to provide releasable means to hold the pin covering or engaging means onto the end of the pin when the covering means is in closed position so that the paper sheets are prevented from accidentally slipping off the pin.

An additional object of the invention is to provide a compartment for a pencil or the like between the pin on which the paper sheets are retained and the hinged support of the pin covering means so that the compartment is closed by the pin covering means in the closed position thereof and is open to give access to the pencil in the open position thereof.

The present invention provides a releasable pin engaging means hingedly supported adjacent the pin and adapted to be positioned over the projecting end of the pin in closed position and to be removed from the projecting end in open position. The pin engaging or covering means can be easily "snapped" between closed and open positions to permit the paper to be withdrawn from the paper holder in open position and to keep the paper from slipping off the pin in closed position. A fastener such as magnetic means is positioned on the back or paper sheet support and holds the pin covering means down on the pin when closed.

My invention is illustrated in the accompanying drawings, forming a part of this application, in which:

Fig. 1 is a top plan view of one embodiment of my invention showing a holder for punched sheets in unfolded position with the sheets adapted for removal from the holder, a portion of the front cover being removed;

Fig. 2 is a fragmentary, side elevational view of the embodiment shown in Fig. 1 with the front cover being positioned in covering relation over the paper sheets;

Fig. 3 is a fragmentary, side elevational view of the top cover shown folded under the back with the paper sheets in writing position and retained on pins;

Fig. 4 is a sectional view taken generally along the line 4—4 of Fig. 1 and showing the magnetic means for securing the pin engaging means over the projecting end of the pins;

Fig. 5 is a sectional view taken generally along the line 5—5 of Fig. 1 and showing a metal plate secured to the front cover and adapted to engage the magnetic means;

Fig. 6 is a sectional view taken generally along the line 6—6 of Fig. 1 and showing a compartment for a writing instrument with ribs therein to facilitate the removal of the writing instrument;

Fig. 7 is a top plan view of a modified form of my invention showing a paper holder with a hinged pin covering means separate from the top cover;

Fig. 8 is a side elevational view of the embodiment of my invention shown in Fig. 7 with the top cover panel in open position;

Fig. 9 is a fragmentary, enlarged cross sectional view of the paper retaining means in the embodiment shown in Figs. 7 and 8 for trapping the paper sheets on a pin;

Fig. 10 is a fragmentary, exploded isometric view, with certain parts in section, showing the magnetic means which holds the pin covering means of Fig. 9 onto the pins when the pin covering means is in closed position;

Fig. 11 is a fragmentary, isometric view of a further form of my invention in which the pin covering means is attached to the front cover of the paper holder;

Fig. 12 is a fragmentary, enlarged sectional view of the paper retaining means for the paper holder shown in Fig. 11;

Fig. 13 is an additional embodiment of my invention in which the paper retaining means is formed without a compartment for writing instruments and openings are provided in the pin covering means to receive the pins; and

Fig. 14 is an isometric view of yet another embodiment of my invention in which a notepad is shown having a plurality of paper sheets retained by my improved paper retaining means, the pin covering means being shown in raised or open position.

Referring now to the drawings for a better understanding of my invention, I show in Figs. 1–6 one form or embodiment of a holder for punched sheets in which a back panel is indicated by the numeral **10**. An edge panel **11** is hingedly connected to back **10** through hinge line **12**. A front cover panel **13** is hingedly connected to edge panel **11** along hinge line **14**. Hinge lines **15** are provided in the front cover panel **13** to permit folding of front **13** in back-to-back contact with back **10** as shown in Fig. 3. The panels may be made of any suitable material, but preferably are formed of a rigid cardboard sheet covered by a thin protective sheet on each side thereof which may be secured directly to the faces of the cardboard sheet or secured along the edges thereof.

The paper retaining means comprises a base indicated generally by the numeral **18** secured to the back panel by suitable securing means, such as brads or rivets. Pins **19** are secured to the base **18** and project outwardly therefrom as shown in Fig. 2. The paper retaining means further comprises a pin engaging or covering means **21** which is secured to cover panel **13** by suitable brads **22**. Sockets **23** are provided to receive the upper ends of the pins **19** when the cover **13** is in closed position as shown in dotted lines in Fig. 2.

A compartment **24** for pens, pencils, erasers, pencil leads, and the like, is provided between pins **19** and the hinged connection **12** of cover **13**. When the covering means **21** is raised to open position as shown in Fig. 1 the compartment **24** is opened to give access to the articles therein. Ribs **26** are provided in compartment **24** for supporting pencil W and permit the pencil W to be

easily withdrawn from compartment 24 as shown in Fig. 6. Paper sheets P have openings adjacent an edge thereof through which the pins 19 project. When covering means 21 is in closed position as shown in Fig. 3 and by dotted lines in Fig. 2, the projecting ends of pins 19 are positioned in the sockets 23. The paper sheets P are thereby trapped on the pins 19 to keep them from slipping off the pins.

To hold the covering means 21 in closed position against the projecting ends of the pins 19, a magnetic latch is provided comprising a magnet 27 (see Fig. 4) having pole pieces 28 in the form of plates which project through slots 29 in base 18. Lugs 30 are provided on pole plates 28 and extend under magnet 27 to hold plates 28 in position. A coacting metal plate 31 is secured to pin covering means 21 and is adapted to engage the pole plates when covering means 21 is closed as shown in dotted lines in Fig. 2. As shown in Fig. 4, magnet 27 and pole plates 28 are mounted somewhat loosely in a compartment 25. This allows slight shifting movement of magnet 27 and plates 28 when top cover 13 is positioned over pole plates 28, assuring good magnetic contact. Also, plate 31 is positioned loosely on projection 32 which is secured to covering means 21 for this same reason (see Fig. 5).

To guide the covering means 21 during closing movement a guide 33 is secured to each end thereof. Complementary slots 40 are provided in the ends of base 18 to receive the guides 33, thereby to guide and center the covering means 21 so that sockets 23 automatically align with pins 19.

As shown in Fig. 3, the cover panel 13 may be folded in back-to-back position with back 10 about hinge lines 15 while the pin covering means 21 is retained in covering position over pins 19. This allows the paper holder to be used in writing position in a minimum of space. Likewise, one or more of the sheets P may be folded about the opened cover, thus to utilize the lower sheets.

Referring now to Figs. 7–10 in which a modification of my invention is shown, the pin covering means 21^a is hingedly connected to the base 18^a through hinges 34. A back panel 10^a is hingedly connected to edge panel 11^a along hinge line 12^a and cover panel 13^a is hingedly connected to edge panel 11^a along hinge line 14^a. The base 18^a is secured to back 10^a and the compartment 24^a is provided for a writing instrument W or the like. As shown in Fig. 10, the magnetic latch comprises a magnet 27^a having pole plates 28^a which project through slots 29^a in base 18^a. Metal plate 31^a is secured to paper covering means 21^a and is adapted to engage pole plates 28^a upon movement of covering means 21^a to the closed position shown in Fig. 9.

Protuberances 35 extend from pin covering means 21^a and are adapted to fit against the projecting ends of pins 19^a in the closed position thereof as shown in Fig. 9. The upper ends 36 of pins 19^a are inclined downwardly toward compartment 24^a and the protuberances 35 are formed with complementary surfaces (see Fig. 9). Thus, paper P may be pulled from the paper holder shown in Figs. 7–10 while the pin engaging means 21 is in closed position without the tearing of the paper. Upon pulling a sheet of paper P upwardly and outwardly the paper slips between the protuberances 35 and the inclined ends 36 of pins 19^a as the upward force of the paper against the pin covering means 21^a breaks temporarily the connection between magnet 27^a and plate 31^a so that a sheet of paper may be slipped between the ends 36 and the pin covering means 21^a. After the paper sheet or sheets have been removed, the pin covering means 21^a returns to its original position. Sheets may thus be removed without tearing out the holes therein. Cover panel 13^a may be folded in back-to-back relation to back panel 10^a about hinge lines 15^a as in the modification of my invention shown in Figs. 1–6.

Referring now to Figs. 11 and 12, I show a further modification of my paper holding apparatus with a pin covering means indicated generally by the numeral 21^b shown secured to the inner surface of a front cover panel 13^b. Back panel 10^b is hingedly connected to edge panel 11^b along hinge line 12^b and edge panel 11^b is connected to cover panel 13^b along hinge line 14^b as in the embodiment of the invention shown in Figs. 1–6. Protuberances or knobs 35^b are positioned on the pin covering means 21^b and are adapted to contact the downwardly inclined ends of pins 19^b in the closed position of covering means 21^b. A magnet having pole plates 28^b is provided at each end of the base indicated generally by numeral 18^b and coacting metal plates 37 are secured to covering means 21^b and are adapted to engage plates 28^b in the closed position of the pin covering means 21^b. A compartment 24^b is provided for writing instruments and the like and is covered by the cover panel 13^b in the closed position thereof. Paper sheets may be pulled off pins 19^b while the covering means 21^b is in closed position as in the embodiment shown in Figs. 7–10.

Referring now to Fig. 13, in which an additional embodiment of my invention is shown with no compartment for writing instruments, back panel 10^c is hingedly connected to edge panel 11^c along hinge line 12^c, and cover panel 13^c is connected to edge panel 11^c along hinge line 14^c. Pin covering means indicated generally by the numeral 21^c has openings 39 extending through a plate member 41 secured to the cover panel 13^c. The openings 39 are adapted to receive pins 19^c and coacting plate members 42 are provided on the ends of the plate 41 and are adapted to engage the pole plates 28^c with the pins positioned in the openings 39. Thus, the embodiment shown in Fig. 13 is similar to that shown in Figs. 11 and 12 except that openings 39 are provided to receive pins 19^c instead of protuberances which bear against the pins as in Figs. 11 and 12. Further, no compartment for writing instruments and the like is provided in the embodiment shown in Fig. 13.

Referring now to Fig. 14, a still further embodiment of my invention comprising a notepad indicated generally by the numeral 44 is shown. Notepad 44 comprises a supporting base 46 and has a pair of pins 47 extending therefrom. Paper sheets indicated by the letter P have openings therein which receive pins 47 and thereby to retain the paper sheets P in position. An edge panel 48 is hingedly connected to base 46 about hinge line 49 and pin covering means indicated generally by the numeral 51 is hingedly connected to edge panel 48 about hinge line 52. Holding means 53 is secured to base 46 and has a magnet therein with pole plates 54 extending through slots in holding means 53. A coacting metal plate 56 is secured to the covering means 51 and is adapted to engage pole plates 54 to secure covering means 51 in position over pins 47. The covering means thus contacts the projecting ends of pins 47 and thereby traps paper sheets P on the pins. The ends of pins 47 are inclined downwardly toward edge panel 48 and paper sheets P may be pulled off the ends of pins 47 as in the embodiments shown in Figs. 7–10 and 11.

From the foregoing, it will be seen that I have provided a paper holder that secures paper sheets in position on upstanding pins extending from a supporting member with pin covering means in position over the projecting ends of the pins to trap the paper sheets thereon. The pin covering means in hingedly connected and may be easily "snapped" to closed position over the pins to trap the paper sheets thereon or to open position to permit withdrawal of the paper sheets from the pins. To hold the covering means in closed position on the pins, magnetic means are provided which holds the covering means in the closed position thereof but does not exert a continuing closing force on the covering means when in the open position. While I have illustrated magnetic means to hold the covering means on the pins, other types of holding means may be used, if desired, such as a snap con-

nection. If desired, a compartment for writing instruments may be provided between the pins and the hinged support of the pin covering means.

While I have shown my invention in several forms, it will be obvious to those skilled in the art that it is not so limited, but is susceptible of various other changes and modifications without departing from the spirit thereof, and I desire, therefore, that only such limitations shall be placed thereupon as are specifically set forth in the appended claims.

What I claim is:

1. In a holder for paper sheets having a pair of holes therethrough adjacent an edge thereof, a back on which the sheets are supported, a base secured to the back and having a pair of pins projecting therefrom and passing through the holes in said sheets, an edge panel hingedly connected to the edge of said back adjacent said pins, a cover panel hingedly connected to said edge panel and adapted to be disposed in a closed position over the projecting ends of said pins in a generally parallel position to said back, pin engaging means secured to the cover panel and adapted to be positioned over the projecting ends of said pins in closed position, a compartment on said base positioned between the pins and the hinged connection of the back to the edge panel, said compartment being covered by said cover panel in the closed position thereof and being open in an open position thereof, magnetic means on said base, and a coacting plate on said pin engaging means adapted to engage the magnetic means in the closed position of the cover panel and thereby magnetically secure the cover panel against the projecting ends of the pins in the closed position thereof whereby the paper sheets are trapped on the pins.

2. The holder defined in claim 1 further characterized in that guides are provided on said pin engaging means, and guideways are provided on said base to receive said guides whereby the pin engaging means is accurately positioned on the projecting ends of said pins.

3. In a holder for paper sheets punched to provide a pair of holes adjacent an edge thereof, a rectangular back panel on which a stack of sheets is supported, a rigid base secured to the back panel at an end edge thereof and having a forward wall adjacent said end edge and a pair of side walls adjacent the side edges of the back panel, a pair of pins projecting outwardly from the base and passing through the holes in said sheets, an edge panel hingedly connected to said end edge of said back panel and movable between an open position in the same plane as said back panel and a closed position in parallel relation to the forward wall of said base, a cover panel hingedly connected to said edge panel and adapted when closed to lie in a position generally parallel to said back panel, a cover for the base secured to said cover panel adjacent the hinge line connecting the cover panel to the edge panel, said base cover being movable between an open position in which the cover panel is in the same plane as the back panel and a closed position in which the base cover is positioned on the edges of the base walls and adjacent the projecting ends of the pins to trap the paper thereon, means releasably holding the base cover against the ends of the pins in the closed position of the base cover, coacting guides on said base and said base cover accurately to position the base cover on the base as the base cover moves to closed position, said base cover being spaced from said base by said edge panel when the base cover is in an open position and moving with said edge panel when the edge panel moves to its closed position in parallel relation to the forward wall of the base, and said edge panel extending to the outer surface of said base cover in the closed position thereof and aiding in guiding said base cover on the base and in holding said base cover in proper position through the hinge line connecting the edge panel to the cover panel.

4. In a binder, a stack of paper sheets having a pair of holes therethrough adjacent an edge thereof, a back panel on which the sheets are supported, an elongated base secured to the back panel adjacent an edge thereof and extending substantially the length of said edge, a pair of pins projecting outwardly from the base and passing through the holes in said sheets, an edge panel connected to the edge of said back panel adjacent said base, a cover panel connected to said edge panel and adapted when closed to lie in a position generally parallel to said back panel, a compartment on said base between the edge of the sheets having said holes therethrough and the connection of the back panel to the edge panel to accommodate a writing instrument therein, said cover panel having three parallel hinge lines therein defining three narrow connected hinge panels adjacent the edge panel, covering means fixedly secured to a first of said hinge panels connected to the edge panel, said covering means being movable with said first hinge panel between closed position covering the compartment and the projecting ends of the pins and open position removed from the ends of the pins and the compartment, said front cover panel being foldable in face-to-face relation to said back panel while said covering means is in closed position with a second of said hinge panels folded in face-to-face contact with said first hinge panel and a third of said hinge panels folded in face-to-face contact with said edge panel, and a magnetic latch spaced from the pins and positioned when latched between said edge of the stack of sheets and the compartment, said latch embodying two separable parts, one of said parts being on said covering means and the other of said parts being on said base thereby releasably holding the covering means in closed position over the compartment and the projecting ends of the pins, whereby the sheets are trapped on the pins when the compartment is closed.

5. In a holder for paper sheets having a pair of holes therethrough adjacent an edge thereof, a back panel on which the sheets are supported, a base secured to the back panel, a pair of pins projecting from the base and passing through the holes in said sheets, an edge panel connected to the edge of said back panel adjacent said base, a cover panel connected to said edge panel and mounted for movement relative to the back panel and adapted when closed to lie in a generally parallel position to said back panel, a compartment on said base positioned between the pins and the connection of the back panel to the edge panel, said cover panel having three parallel hinge lines therein defining three narrow connected hinge panels adjacent the edge panel, pin covering means fixedly secured to the one of said hinge panels connected to the edge panel, said covering means being movable with said one hinge panel between a closed position over the compartment and the projecting ends of the pins and an open position removed from the ends of the pins and the compartment, said front cover panel being foldable in face-to-face relation to said back panel when said covering means is in closed position with a second of said hinge panels folded in face-to-face relation with said first named hinge panel and a third of said hinge panels folded in face-to-face relation with said edge panel, coacting guides on said base and said covering means accurately to position the covering means over the projecting ends of said pins as the covering means moves to closed position, and a magnetic latch between the pins and the compartment embodying two separable parts one of which is on said covering means and the other of which is on said base thereby releasably holding the covering means against the projecting ends of the pins and covering the compartment.

6. In a holder for a stack of paper sheets having a pair of holes therethrough adjacent an edge thereof, a back disposed to support the stack of sheets, an elongated base secured to the back adjacent one edge thereof and extending substantially the length of said edge of the back, a pair of pins projecting from the base and disposed to pass through holes in said paper sheets, an edge

panel connected to said edge of the back, a cover panel connected to said edge panel and adapted to be disposed generally parallel to said back, covering means secured to one of said panels and of substantially the same length and width as the base, a wall intermediate the width of the base and extending generally parallel to said edge of the back and spaced inwardly therefrom to define the inner side of an elongated storage compartment for pencils and the like, the covering means and the panel to which it is secured being mounted for movement relative to said pins and said compartment, whereby said covering means is movable from closed position over the compartment and in contact with the projecting ends of the pins to a position removed therefrom, a magnetic latch spaced from the pins and embodying two separable parts, one part being on said base between said wall and the position occupied by said edge of the stack of paper sheets, and the other part of said latch being on said covering means, whereby the latch holds the covering means in closed position both over the projecting ends of the pins to trap the sheets thereon and over said compartment to retain pencils and the like therein.

7. In a holder for paper sheets having a pair of holes therethrough adjacent an edge thereof, a back on which the sheets are supported, a base secured to the back and having a pair of pins projecting therefrom and passing through the holes in said sheets, an edge panel hingedly connected to the edge of said back adjacent said pins, a cover panel hingedly connected to said edge panel and adapted to be disposed in a closed position over the projecting ends of said pins in a generally parallel position to said back, pin engaging means secured to the

cover panel and adapted to be positioned over the projecting ends of said pins in closed position, a compartment on said base positioned between the pins and the hinged connection of the back to the edge panel, said compartment being covered by said cover panel in the closed position thereof and being open to an open position thereof, and a magnetic latch spaced from the pins and positioned when latched between the sheets and the compartment, said latch embodying two separable parts, one of said parts being on the pin engaging means and the other of said parts being on said base thereby magnetically securing the pin engaging means against the projecting ends of the pins in the closed position thereof whereby the paper sheets are trapped on the pins.

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