March 6, 1928. 1,661,519

G. P. WIGGINTON

SHEET OR CARD HOLDER

Filed Nov. 27. 1926 2 Sheets-Sheet 1

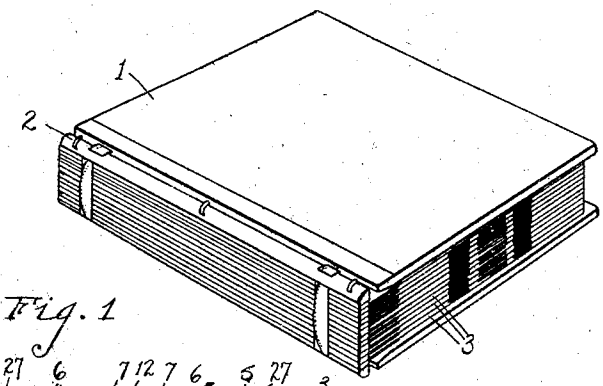


Fig. 1

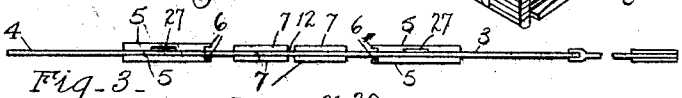


Fig. 3.

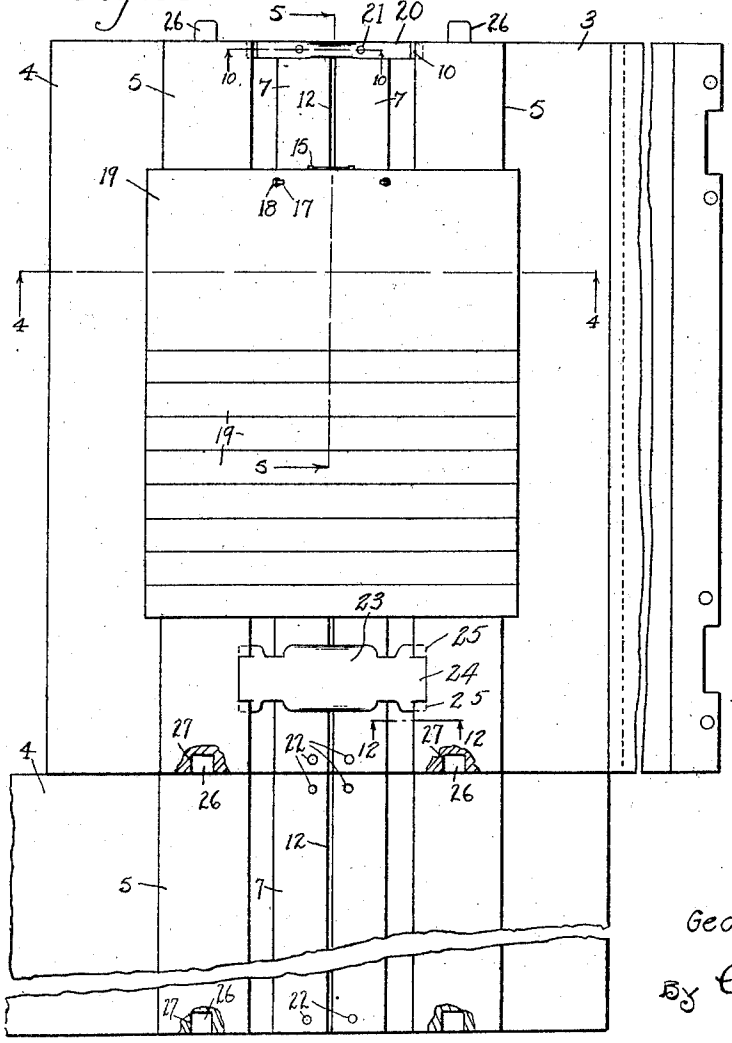


Fig. 2

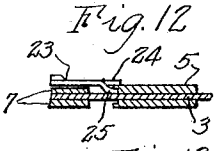


Fig. 12

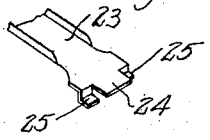


Fig. 13

INVENTOR
George P. Wigginton
By Chappell & Earl
ATTORNEYS

March 6, 1928.

1,661,519

G. P. WIGGINTON

SHEET OR CARD HOLDER

Filed Nov. 27. 1926

2 Sheets-Sheet 2

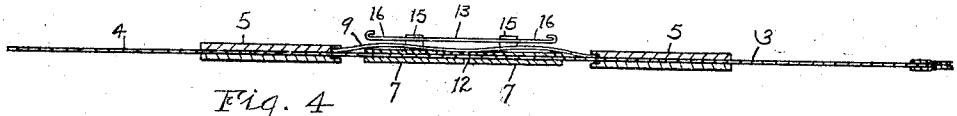


Fig. 4

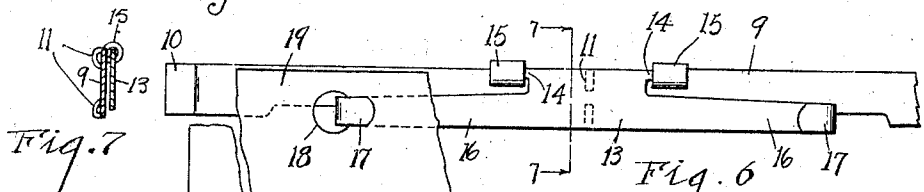


Fig. 7

Fig. 6

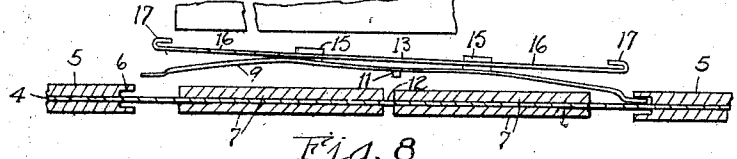


Fig. 8

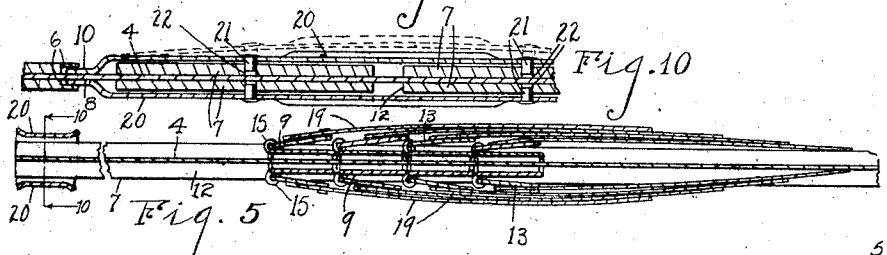


Fig. 10

Fig. 5

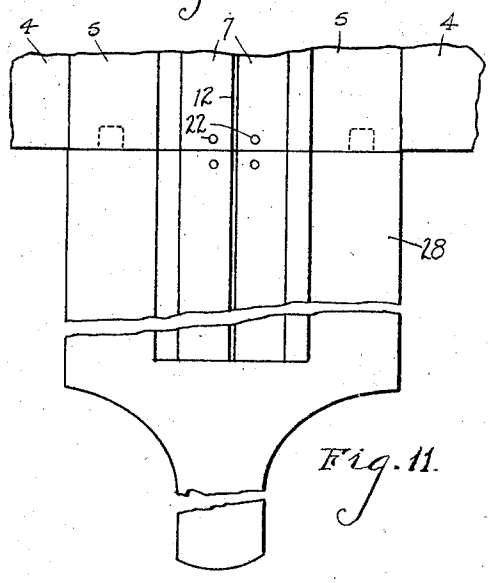


Fig. 11.

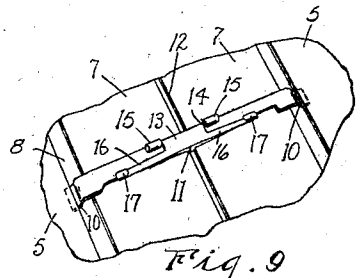


Fig. 9

INVENTOR

George P. Wigginton

BY Chappell Earl

ATTORNEYS

Patented Mar. 6, 1928. 1,661,519

UNITED STATES PATENT OFFICE.

GEORGE P. WIGGINTON, OF KALAMAZOO, MICHIGAN, ASSIGNOR TO OFFICE EQUIPMENT PATENTS CORPORATION, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

SHEET OR CARD HOLDER.

Application filed November 27, 1926. Serial No. 151,093.

My improved sheet or card visible index holder is especially designed for the holding of visible indexed sheets or cards and I have illustrated my improvements as I have embodied them for that purpose. My improvements are, however, well adapted for carrying various kinds of information which it is desired to have displayed or rendered convenient for reference.

My present improvements are in some respects an adaptation of and an improvement upon the structure shown in my application for Letters Patent filed June 19, 1926, Serial No. 117,072.

The main object of this invention is to provide an apparatus of the class described which is of very large capacity, a considerable number of sheets or cards being effectively supported so that they are all conveniently accessible and so that they may be conveniently shifted to a second holder or changed about as occasion requires.

Second, to provide an improved apparatus of the class described in which a sheet or series of sheets may be conveniently added or sheets removed, as occasion may require, or an entire sheet body shifted.

Objects pertaining to details and economies of my invention will definitely appear from the detailed description to follow. The invention is clearly defined and pointed out in the claims.

A structure embodying the features of my invention is clearly illustrated in the accompanying drawing forming a part of this application, in which:

Fig. 1 is a perspective view of a binder of the loose leaf type employing a plurality of sheet-like supports or units embodying the features of my invention.

Fig. 2 is a fragmentary plan view of a pair of the units disposed in proper relation to permit the shifting of sheet holders from one of the units to another.

Fig. 3 is a bottom view of one of the units.

Fig. 4 is a detail section on a line corresponding to line 4—4 of Fig. 2.

Fig. 5 is a detail section on a line corresponding to line 5—5 of Fig. 2.

Fig. 6 is a fragmentary plan view of one of the sheet holders with its sheet-attaching means, a fragment of the sheet being shown in engagement with the holder.

Fig. 7 is a section on a line corresponding to line 7—7 of Fig. 6.

Fig. 8 is a detail section illustrating one manner of engaging the sheet holders with and disengaging them from the support.

Fig. 9 is a fragmentary perspective view showing one of the holders in engagement with a support.

Fig. 10 is an enlarged detail section on a line corresponding to line 10—10 of Fig. 5 showing details of the holder-retaining means.

Fig. 11 is a fragmentary plan view of a modified form of my invention in which a transfer member is employed instead of directly shifting into a second holder as shown in Fig. 2.

Fig. 12 is a detail section on line 12—12 of Fig. 2.

Fig. 13 is a detail perspective view of the follower.

Referring to the drawing, 1 represents a loose sheet binder provided with binding or clamping bars 2. As the structural details of the binder form no part of the invention they are not illustrated therein. This binder as illustrated, however, contains a plurality of units designated generally by the numeral 3. Each unit carries two sets or series of sheet or card holders, that is, each face of each unit is adapted to receive a plurality of holders.

In the embodiment illustrated each unit comprises a plate-like body member 4 having spaced pairs of outer bars 5 secured on the sides thereof. These bars 5 have rabbeted inner edges 6 which coact with the plate 4 providing groove-like ways facing towards each other. Between and in spaced relation to these bars 5 are mounted inner bars 7 which are spaced to provide a forwardly facing groove-like guide way 12.

I provide a plurality of holders 9 which have rearwardly offset ends 10 engageable with and slidable in the facing ways, these holders 9 also having rearwardly projecting lugs 11 which engage and slide in the forwardly facing grooves or ways 12 between the bars 7. These holders are, in the embod-

iment illustrated, formed of spring material so that they may be engaged and disengaged by springing the same. The ways are also open at their ends so that the holders may be slid from the ends of the ways.

Each holder is provided with a sheet-attaching member 13 having oppositely projecting pintles 14 engaging the eyes or knuckles 15 so that the attaching members are pivotally attached to the holders. The attaching members have laterally projecting arms 16 provided with inturned hooks or lugs 17 at their ends with which holes 18 in the sheets or cards 19 may be engaged, the attaching members being substantially as shown in my application for patent referred to.

At the ends of the ways I provide retaining members 20 which are also formed of spring material and have rearwardly offset ends engageable with the facing ways, each of these retaining members also having rearwardly projecting pins 21 engageable with holes 22 in the bars 7, the resiliency of the member 20 retaining the pins normally in engagement while permitting their being disengaged by lifting up on the central portion of the retainer.

I also provide a follower 23 formed of spring material and having its ends 24 overlapping the edges of the bars 5 while the rearwardly offset tongues 25 engage under the bars 5, thereby retaining the follower. The follower is of spring material and of such length that when sprung into engagement as shown in Fig. 2 sufficient friction results to hold it in its adjusted position. With this arrangement the holders may be arranged on the supports in end to end relation, the attaching means being arranged so that there is no substantial overlapping of the holders or their attaching means as is illustrated in Fig. 5, the sheets or cards lying substantially flat and with the edge of each exposed for identifying indicia.

Each support or unit is preferably provided with a pair of tongues 26 on its upper edge and holes 27 on its lower edge adapted to receive the tongues of a second unit or support, thereby facilitating the alining of the ways of a pair of supports as is shown in Fig. 2.

When it is desired to shift the sheets or cards from one support to another, the second support is placed in receiving position as shown in Fig. 2, and the retaining member removed. The follower may be removed entirely or shifted to the second holder. The desired number of sheets with their holder are then shifted to the second support. The follower in Fig. 2 is shown below the sheet body. It will be understood that in supporting position it would underlie the sheets and engage the bottom holder.

In the modification shown in Fig. 11, I provide a transfer member 28 which may be used to transfer the sheets from one support to another or for temporarily holding a group of sheets, the transfer member itself being used as a support. In this transfer member the ways are closed at the lower end and the upper end may be closed by a retaining member so that the transfer member can be handled without the holders falling out.

I have not attempted to illustrate or describe other embodiments or adaptations, particularly in the form of the ways or supports, as it is believed that the disclosure made will enable those skilled in the art to adapt the improvements as may be desired.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. In an apparatus of the class described, the combination of a plate-like body member, spaced pairs of outer bars secured on opposite sides of said body member, said bars having rabbeted inner edges coacting with said body member providing groove-like ways facing toward each other, pairs of inner bars disposed between and in spaced relation to said outer bars and to each other, sheet holders having rearwardly offset ends engaging said ways and lugs engaging between said inner bars, said sheet holders being provided with sheet-attaching means and being formed of spring material permitting their engagement or disengagement with the ways by springing the holders for insertion or removal at the ends of the ways, a holder-retaining member having rearwardly offset ends engageable with said ways and inwardly projecting pins engageable with holes in said inner bars, said retaining member being of spring material whereby said pins are held yieldingly in engagement with said bars, and a follower disposed with its ends overlapping said outer bars and having rearwardly offset tongues slidably engaging said ways, said follower being of spring material to permit its engagement and disengagement with said ways for frictionally holding it in its adjusted positions.

2. In an apparatus of the class described, the combination of a plate-like body member, spaced pairs of outer bars secured on opposite sides of said body member, said bars having rabbeted inner edges coacting with said body member providing groove-like ways facing toward each other, pairs of inner bars disposed between and in spaced relation to said outer bars and to each other, sheet holders having rearwardly offset ends engaging said ways and lugs engaging between said inner bars, said sheet holders being provided with sheet-attaching means and being formed of spring material per-

mitting their engagement or disengagement with the ways by springing the holders for insertion or removal at the ends of the ways, and a holder retaining member having rearwardly offset ends engageable with said ways and inwardly projecting pins engageable with holes in said inner bars, said retaining member being of spring material whereby said pins are held yieldingly in engagement with said bars.

3. In an apparatus of the class described, the combination of a plate-like body member, spaced pairs of outer bars secured on opposite sides of said body member, said bars having rabbeted inner edges coacting with said body member providing groove-like ways facing toward each other, pairs of inner bars disposed between and in spaced relation to said outer bars and to each other, sheet holders having rearwardly offset ends engaging said ways and lugs engaging between said inner bars, said sheet holders being provided with sheet-attaching means, and a follower disposed with its ends overlapping said outer bars and having rearwardly offset tongues slidably engaging said ways, said follower being of spring material to permit its engagement and disengagement with said ways for frictionally holding it in its adjusted positions.

4. In an apparatus of the class described, the combination of a plate-like body member, spaced pairs of outer bars secured on opposite sides of said body member, said bars having rabbeted inner edges coacting with said body member providing groove-like ways facing toward each other, pairs of inner bars disposed between and in spaced relation to said outer bars and to each other, and sheet holders having rearwardly offset ends engaging said ways and lugs engaging between said inner bars, said sheet holders being provided with sheet-attaching means.

5. In an apparatus of the class described, the combination of a plate-like body member, spaced outer bars secured to said body member, said bars having rabbeted inner edges coacting with said body member providing groove-like ways facing toward each other, inner bars disposed between and in spaced relation to said outer bars and to each other, sheet holders having ends engaging said ways and lugs engaging between said inner bars, said sheet holders being provided with sheet-attaching means, a holder-retaining member having rearwardly offset ends engageable with said ways and inwardly projecting pins engageable with holes in said inner bars, said retaining member being of spring material whereby said pins are held yieldingly in engagement with said bars, and a follower disposed with its ends overlapping said outer bars and having rearwardly offset tongues slidably engaging said ways, said follower being of spring material to permit its engagement and disengagement with said ways for frictionally holding it in its adjusted positions.

6. In an apparatus of the class described, the combination of a plate-like body member, spaced outer bars secured to said body member, said bars having rabbeted inner edges coacting with said body member providing groove-like ways facing toward each other, inner bars disposed between and in spaced relation to said outer bars and to each other, sheet holders having ends engaging said ways and lugs engaging between said inner bars, said sheet holders being provided with sheet-attaching means, and a follower disposed with its ends overlapping said outer bars and having rearwardly offset tongues slidably engaging said ways, said follower being of spring material to permit its engagement and disengagement with said ways for frictionally holding it in its adjusted positions.

7. In an apparatus of the class described, the combination of a plate-like body member, spaced outer bars secured to said body member, said bars having rabbeted inner edges coacting with said body member providing groove-like ways facing toward each other, inner bars disposed between and in spaced relation to said outer bars and to each other, sheet holders having ends engaging said ways and lugs engaging between said inner bars, said sheet holders being provided with sheet-attaching means and holder-retaining members having rearwardly offset ends engageable with said ways and inwardly projecting pins engageable with holes in said inner bars, said retaining members being of spring material whereby said pins are held yieldingly in engagement with said bars.

8. In an apparatus of the class described, the combination of a plate-like body member, spaced outer bars secured to said body member, said bars having rabbeted inner edges coacting with said body member providing groove-like ways facing toward each other, inner bars disposed between and in spaced relation to said outer bars and to each other, and sheet holders having ends engaging said ways and lugs engaging between said inner bars, said sheet holders being provided with sheet-attaching means.

9. In an apparatus of the class described, the combination of a support having spaced groove-like ways facing toward each other and an intermediate forwardly facing groove, a plurality of sheet holders slidably engaged in said ways and having inwardly projecting lugs engaging said intermediate groove, said holders being of spring material permitting the engagement and disengagement thereof, and a resilient retaining member at the ends of the ways provided with inwardly offset ends adapted to engage

the ways and with inwardly projecting pins, said support being provided with holes adapted to receive said pins.

10. In an apparatus of the class described, the combination of a support having spaced groove-like ways facing toward each other and an intermediate forwardly facing groove, and a plurality of sheet holders slidably engaged in said spaced ways and having inwardly projecting lugs engaging said intermediate groove, said holders being of spring material permitting the engagement and disengagement thereof.

11. In an apparatus of the class described, the combination of a support having spaced ways facing toward each other and an intermediate forwardly facing way, a plurality of sheet holders having ends slidably engaged in said spaced ways and a portion engaging said forwardly facing way, said holders being of spring material permitting the engagement and disengagement thereof, a follower slidable in said ways, and a resilient retaining member at the ends of the ways provided with inwardly offset ends adapted to engage the ways and with inwardly projecting pins, said support being provided with holes adapted to receive said pins.

12. In an apparatus of the class described, the combination of a support having spaced ways facing toward each other and an intermediate forwardly facing way, a plurality of sheet holders having ends slidably engaged in said spaced ways and a portion engaging said forwardly facing way, said holders being of spring material permitting the engagement and disengagement thereof, and a follower slidable in said ways.

13. In an apparatus of the class described, the combination of a support having spaced ways facing toward each other and an intermediate forwardly facing way, a plurality of sheet holders having ends slidably engaged in said spaced ways and a portion engaging said forwardly facing way, said holders being of spring material permitting the engagement and disengagement thereof, and a resilient retaining member at the ends of the ways provided with inwardly offset ends adapted to engage the ways and with inwardly projecting pins, said support being provided with holes adapted to receive said pins.

14. In an apparatus of the class described, the combination of a support having spaced ways facing toward each other and an intermediate forwardly facing way, and a plurality of sheet holders having ends slidably engaged in said spaced ways and a portion engaging said forwardly facing way, said holders being of spring material permitting the engagement and disengagement thereof.

15. In an apparatus of the class described, the combination of a support having spaced groove-like ways facing toward each other and an intermediate forwardly facing groove, and a plurality of sheet holders having rearwardly offset ends slidably engaged in said ways and rearwardly projecting lugs engaging said intermediate groove, said holders being of spring material permitting the engagement and disengagement thereof.

16. In an apparatus of the class described, the combination of a support having spaced groove-like ways facing toward each other and an intermediate forwardly facing groove, and a plurality of sheet holders having rearwardly offset ends slidably engaged in said ways and rearwardly projecting lugs engaging said intermediate groove.

17. An apparatus of the class described comprising a plurality of supports provided with ways open at their ends, coacting alining means on said holders whereby the ways may be brought into alinement, a plurality of sheet holders slidable in said ways whereby the holders may be slid from one support to another, a holder-retaining member removably associated with said ways, and a sheet-holder follower slidable in said ways and having frictional engagement with the support whereby it is retained in its adjusted positions in the ways.

18. An apparatus of the class described comprising a plurality of supports provided with ways open at their ends, coacting alining means on said supports whereby the ways may be brought into alinement, a plurality of sheet holders slidable in said ways whereby the holders may be slid from one support to another, and a holder-retaining member removably associated with said ways.

19. In an apparatus of the class described, the combination of a plurality of supports provided with ways adapted to be brought into alinement, a plurality of sheet holders slidable in said ways and adapted to be slidably removed from the way of one support into the way of another when the ways are brought in end-to-end relation, and a sliding follower for said sheet holders.

20. In an apparatus of the class described, the combination of a support having spaced ways facing toward each other, a plurality of sheet holders having ends slidably engaging in said ways, and a follower provided with end portions engaging said ways, said follower being of spring material permitting its engagement and disengagement and for frictionally holding it in its adjusted positions in said ways.

21. In an apparatus of the class described, the combination of a support provided with a way, a plurality of sheet holders slidable in said way, said sheet holders having sheet-attaching means pivotally mounted thereon, and a follower slidable in said way to sup-

port said sheet holders, said follower being adapted to underlie the sheets mounted on said holders when it is adjusted into supporting relation to a holder.

22. In an apparatus of the class described, the combination of a support provided with a way, a plurality of sheet holders slidable in said way and provided with sheet-attaching means, and a follower formed of flat spring material engaged in said way and adapted for frictional engagement therein to lie beneath sheets mounted on said holders.

23. In an apparatus of the class described, the combination of a support provided with a way, a plurality of sheet holders slidably engaged in said way and provided with sheet-attaching means arranged in non-overlapping relation to adjacent holders, and a follower slidable in said way to coact with said holders, said follower being adapted to lie beneath the sheet mounted on the adjacent holder when in coacting relation thereto.

In witness whereof I have hereunto set my hand.

GEORGE P. WIGGINTON.