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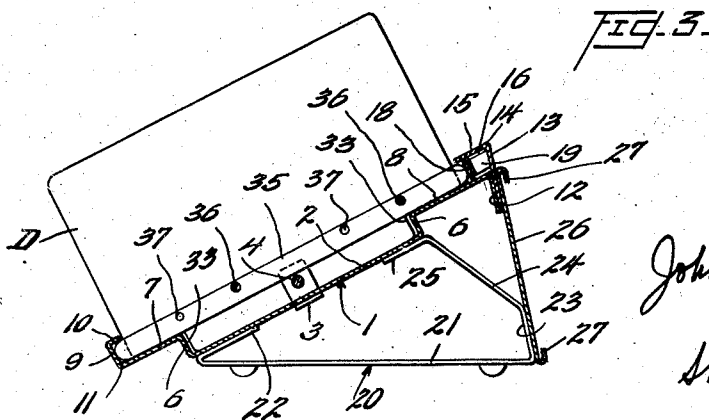
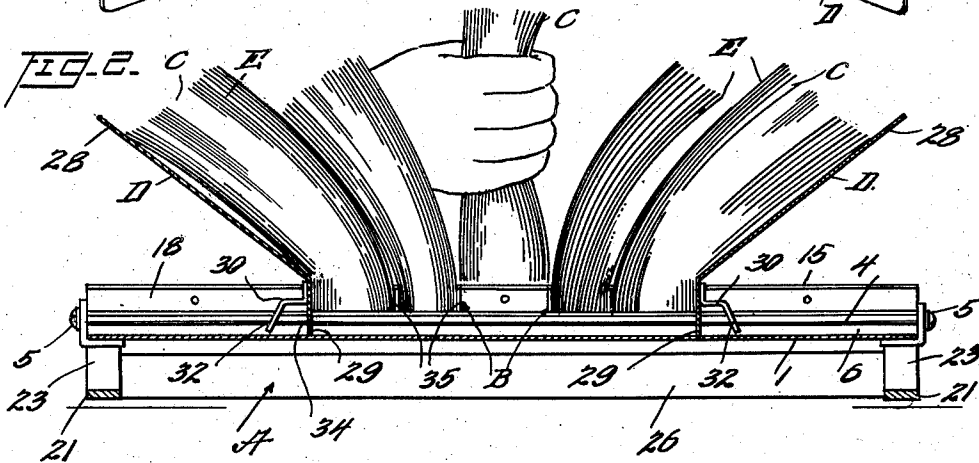
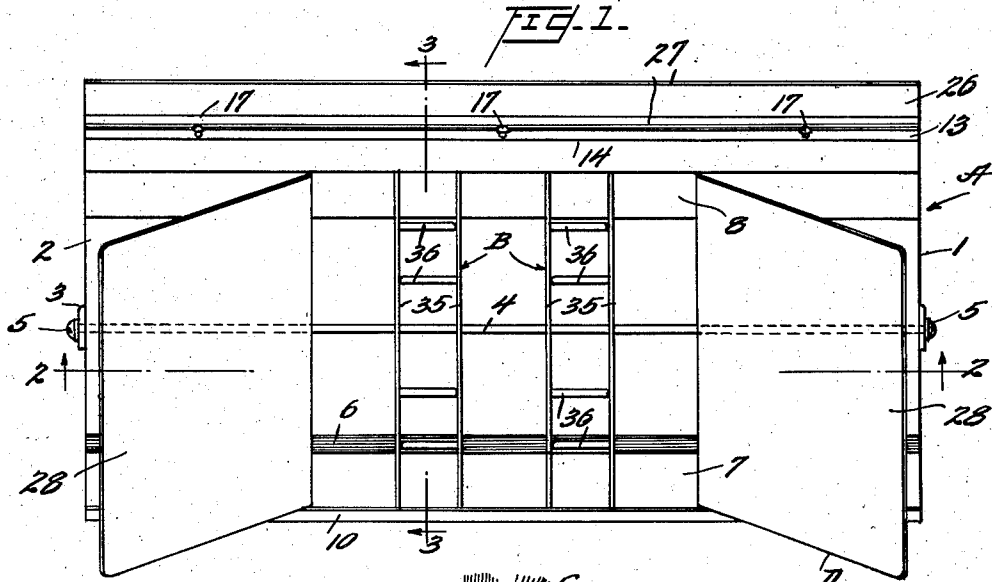
J. C. ROGERS

2,232,635

CATALOGUE BINDER AND HOLDER

Filed July 25, 1938

2 Sheets-Sheet 1



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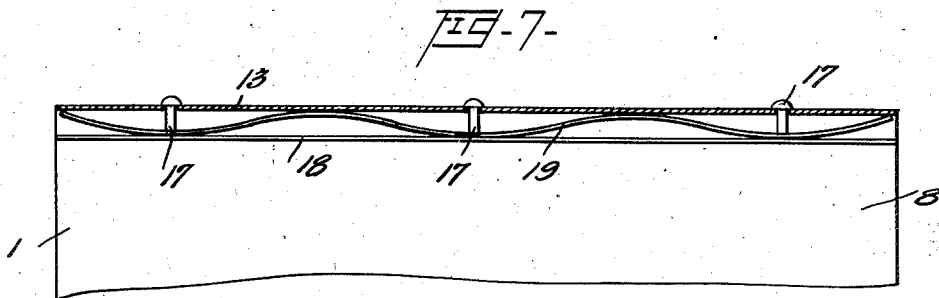
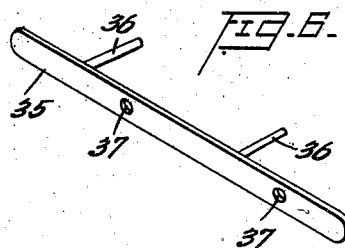
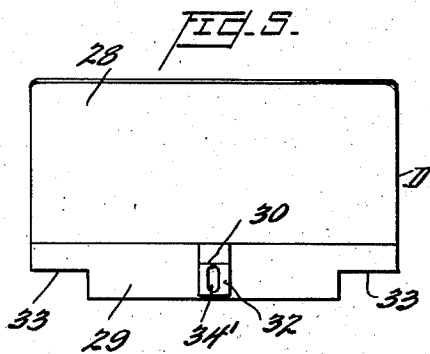
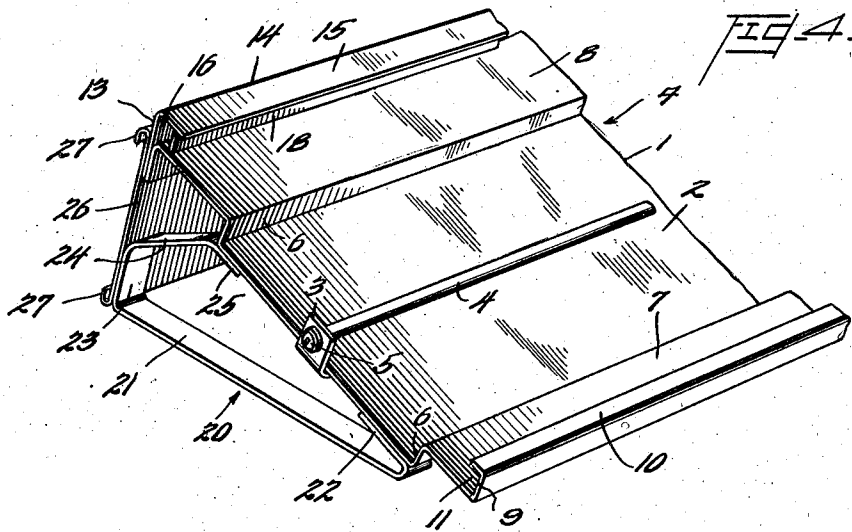
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CATALOGUE BINDER AND HOLDER

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2 Sheets-Sheet 2



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## UNITED STATES PATENT OFFICE

2,232,635

## CATALOGUE BINDER AND HOLDER

John C. Rogers, Atlanta, Ga.

Application July 25, 1938, Serial No. 221,209

9 Claims. (Cl. 129-1)

Generically this invention relates to binders, but it is more particularly directed to a loose leaf binder including a number of individual binder units operable to permit ready insertion of additional leaves to any unit without the necessity of removing any of the other units.

One of the principal objects of this invention is the provision of a binder and holder more particularly applicable to reference books such as catalogues made up of a great number of sheets; for instance, of automobile parts and accessories, said binder comprising a number of individual binder units or sections, the contents of which is more or less constantly referred to, wherein replacement and addition of sheets is frequently made, and which may be readily effected with respect to any unit without the removal of any of the other units.

Another principal object of this invention is the provision of a catalogue holder or loose leaf binder having a number of individual-expandible sheet holding sections installed in the holder in such a manner as to permit the individual sections to be securely held, but when desired freely movable, thereby rendering both the individual units and the binder entirely flexible as to capacity.

Another important object of this invention is the provision of a binder including a rack holder comprising a plurality of sets of individual sheet binder or holder bars, and wing members adjustably engageable with the exposed ends of the contents for holding in binding relation the entire contents of the binder, but readily movable to permit the insertion of an additional book or leaf binding unit or the insertion and removal of additional sheets with respect to any individual unit, thereby not only effecting adjustable expansion of the respective units but of the entire binder as well.

A further important object of this invention is the provision of a book or sheet binder and holder comprising a base support adapted to hold a plurality of individual book expansible binders having coacting resilient means permitting the insertion or withdrawal of a respective individual binder, whereby each individual binder is expansible and the end or wing members adapted to compensatingly lock and bind the entire group of books in the binder without the removal of any bolts, nuts, or other fastening means.

With these and other objects in view, which will become apparent as the description proceeds, the invention resides in the construction, com-

bination and arrangement of parts, hereinafter more fully described and claimed, and illustrated in the accompanying drawings, in which like characters of reference indicate like parts throughout the several figures, of which:

Fig. 1 is a top plan view of my improved catalogue binder with the catalogues removed.

Fig. 2 is a longitudinal section taken on the line 2-2 of Fig. 1 with the binder loaded and showing the manner of inserting an individual unit.

Fig. 3 is a cross-section taken on the line 3-3 of Fig. 1.

Fig. 4 is a fragmentary view of a supporting base or rack with the individual binder units and end wing units removed.

Fig. 5 is a side elevation of one of the end binder or wing members.

Fig. 6 is a perspective view of one of the individual binder section bars and leaf holding pins.

Fig. 7 is a fragmentary top plan view of the rack member shown in Fig. 4, partly in section and showing the spring and movable spring bar.

The loose leaf book and catalog binders and holders with which I am familiar have proven unsatisfactory in many respects, for instance, in some cases, though being able to insert a number of sheets in the proper order, but being mounted as a unit it is extremely difficult to separate the sheets and return them to their individual binding position when making a replacement or adding additional sheets, and in other cases attempts have been made to overcome the above defects by having a number of individual catalogue sections removable without removing the remaining sections, but possessing disadvantages, in that, said individual binders are inserted in fixed locking position, and not being expansible, it is necessary to change all of the sections in order to make an addition to any one of them; and it was to overcome such disadvantages and others, by providing a binder adjustable as to capacity and having a plurality of individual sections automatically lockable as they are operatively positioned and permitting instant removal, each of said individual binders being expansible to take care of additional sheets as desired, and end binder and leaf supporting members slidably movable to binding or releasable positions, whereby said binder and said individual binder sections are expansibly adjustable without operation of nuts, bolts, or like fastening means, that I designed the loose leaf binder forming the subject matter of this invention.

In the illustrated embodiment characterizing

this invention there is shown a loose leaf binder A, binder sections B, loose leaf C, and books E.

The binder A comprises a rack or base 1 formed with a bottom section 2, and secured to the under surface of said bottom substantially centrally thereof at each end by welding, riveting, or otherwise is a perforated lug 3 in which lug is mounted the supporting rod 4 secured, in the present instance, by threaded screws 5 rendering said rod detachable, as directly will more fully appear.

Rack or base 1 is preferably formed from sheet metal and the like and is bent upwardly at each side of bottom 2 forming the vertical walls 6 then outwardly forming the aligned raised platform sections 7 and 8, respectively, and constituting supporting seats for the detachable individual binder sections B. Section 7 is bent upwardly as at 9 and inwardly as at 10 forming the end channel 11. Section 8 is bent downwardly at its free end forming the depending flange 12, and overlying said flange, to which it is suitably secured by welding, riveting, or otherwise, is the end wall 13 bent inwardly as at 14 forming section 15, corresponding to section 10, and forming the complementary channel 16.

Loosely mounted in wall 13, in the present instance, is a trio of headed pins 17 connected to the free ends of which is a spring bar 18, and mounted intermediate said bar 18 and wall 13 is a spring element 19 adapted to normally maintain bar 18 in spaced or extended position with respect to wall 13, but compressible with respect to said wall 13 when force is applied to said bar in the direction of said wall, as will be well understood.

In order to support said rack or base 1 at an incline, supporting members 20 are provided at each side of member 1 comprising base sections 21 bent inwardly and upwardly at one end as at 22 and their rear ends upwardly as at 23, inwardly and upwardly as at 24, and downwardly as at 25. Said bottom 2 is adapted to seat on said sections 22 and 25 and is secured thereto in any suitable manner as by welding, riveting, or otherwise, and similarly secured to sections 13 and 23 are the brace members 26, in the present instance, having their edges bent over or crimped as at 27.

In order to bind the entire contents by engaging the exposed ends of same, there is provided a pair of complementary removable end engaging and leaf supporting wing members or wing binder lock members D comprising the normally inclined supporting sections 28 and perpendicular sections 29. Secured to the outer surface of sections 29 adjacent their upper edges are the bracket members 30 secured by rivets or in any suitable manner, and extending outwardly and downwardly forming the leg portion 32. Said members D are adapted to extend between members 10 and 15, and sections 29 are cut out as at 33 to conform to the configuration of sections 7, 8, and 2 and are formed with slot-like perforations 34 adapted to register with perforations 34' formed in legs 32. Said perforations 34 and 34' are adapted to receive rod 4, and when said members D are mounted thereon they will be normally supported as shown in Fig. 2 but slidably movable on said rod, as will directly more fully appear.

Each of said sections B is formed with complementary binding strips 35 carrying the spacer and leaf holding pins 36 suitably connected therewith. These pins are spaced closer to one end

of the strip than the other, as clearly shown in Fig. 6, and are mounted adjacent one edge of said strip. Similarly spaced and positioned with respect to the other end of the strip are a pair of perforations 37 which are in alignment with the said pins 36. At this point it will be noted that there are no right and left hand strips 35, as all of these strips are constructed alike, and all that is necessary to complementally position them, as shown in Fig. 1, is to reverse one of the strips whereby the free ends of the pins will register with openings 37 of the opposite strip, as clearly shown in Fig. 1 of the drawings. Also, when the strips are operatively positioned the pins are at the upper edge so as to give space for the perforations in leaves C, as will be apparent. In this connection it will be noted that each individual binder section B includes two strips 35 and four spacer pins 34 constituting a pair spaced from each end. However by this particular designed strip having two pins, as shown in Fig. 6, it is only necessary to manufacture one form of strip, which when reversed with respect to another of said strips forms therewith the section B having four spaced pins, and which construction facilitates assembling the sections and effects a material saving in production cost.

For brevity of description, the binder has been termed a catalogue binder and sections B referred to in connection with an individual catalogue; however, it is to be understood that wherever the word "catalogue" appears throughout the specification and claims it is intended to embrace books, pamphlets, maps, letters, and the like.

While the operation of the device would seem to be clear from the above description, it might be well to further state that when the wing members B are mounted on rod 4 and pins 5 tightened, said wings are freely slidable thereon. A different catalogue or book E made up of loose leaves C is adapted to be initially bound by a binder section B and is formed with four perforations or slots corresponding in spacing to the spacer pins 36, the strips being arranged as shown in Fig. 1 adapted to be placed on opposite sides of the catalogue with the pins extending through the openings or slots in leaves C thereof. The catalogue E is then gripped by the hand of the operator and one end of the binder inserted under member 15 within channel 16 and force exerted against bar 18 in spring compressing direction sufficiently to permit the opposite end of the binder to pass below member 10, and as the force is removed said bar 18 under action of spring 19 will force the opposite end of said section in channel 11 and maintain the section in fixed or locked binding position; then, by lifting the free ends of wing members D upwardly, they may be slidably moved in meeting direction until bindingly engageable with opposite sides of catalogue E, and then when the lifting force is removed the weight of said members and the leaves resting thereon will maintain said members in fixed and binding position, and at the same time they will permit the leaves to be turned and completely read as desired. The binder is primarily intended to hold a number of catalogues or books. All that is necessary to add additional catalog or catalogues is to lift one of the wings D and slide it back sufficiently to permit another section to be inserted as above described. When the binder is loaded and it is desired to add additional sheets to a particular catalogue, all that is necessary is to lift one of

the wings D and slide it out of binding relation, slidably shift the individual catalogues or bound units slightly, grip the desired catalogue as shown in Fig. 2, exert force against bar 18 as above described, remove the catalogue, separate the leaves, insert the desired sheet or number of sheets, bring the strips or bars 35 again into binding position, return the unit to its position in the binder and slide wing members D toward each other thereby bringing the catalogues into binding relation, and by letting go of the wing members they are locked in binding position.

For purposes of illustration it might be well to add that sections B are adapted to normally hold approximately 2 inches of sheets and then expandable to hold an additional 1½ inches of sheets without having to change the adjacent section. However, it is to be understood that this adjustment can be increased as desired by substituting a strip or strips 35 carrying longer pins 36. It is apparent that catalogues of varying thicknesses may be carried by the holder, as well as those exceeding the normal capacity of a section B, without departing from the scope of this invention. It will also be noted that by simply loosening the end members D and separating members 35 of a respective section B, additional leaves having slotted openings in their lower edges may be inserted therein or removed therefrom as desired, and said catalogue content of the binder brought into binding relation as a unit by simply moving one of the members D in binding direction or both members in meeting direction, according to the particular situation, as will be clear without further discussion.

It is evident from the above that I have designed a catalogue binder and holder device easily operable to permit insertion or removal of leaves from any particular catalogue, without disturbing the remaining catalogues or the insertion of an additional catalogue carrying binder section without difficulty, by reason of the fact that each of the supporting wing binder elements is instantly lockable and releasable and that they, and the individual binder sections, are freely slidable throughout the length of the binder and that each individual binder section, as well as the primary binder, is expansibly adjustable without having to manually connect and disconnect various fastening and retaining means, yet said device is simple in construction, manufacturable at a reasonable cost and efficient for the purposes intended.

Although in practice I have found that the form of my invention illustrated in the accompanying drawings and referred to in the above description as the preferred embodiment is the most efficient and practical, yet realizing that conditions concurrent with the adoption of my invention will necessarily vary, I desire to emphasize that various minor changes in details of construction, proportion and arrangement of parts, may be resorted to within the scope of the appended claims without departing from or sacrificing any of the principles of this invention.

Having thus described my invention, what I desire protected by Letters Patent is as set forth in the following claims:

1. A loose leaf binder including a supporting base having a pair of backing members adjustably engageable with the outer leaves of the loose leaf contents, said members being lockable in adjusted position and a plurality of retaining members with each retaining member consisting of a pair of exactly similar laterally expandible

binder strips formed by right angularly extending pins, the retaining members being adjustable with respect to each other adapted to bind respective predetermined groups of leaves of said contents of a thickness substantially double the length of said pins.

2. A loose leaf binder including a supporting base, a pair of retaining and leaf supporting adjustable members engageable with the outer leaves of the binder contents, means carried by said members adapted to effect locking of said members in adjusted position and a plurality of relatively adjustable binder elements, each element consisting of a pair of identical laterally expandible binder strips including pins extending at right angles therefrom and adapted to bind respective predetermined sections of said contents of a thickness substantially double the length of said pins, whereby said retaining members and binder elements are slidably adjustable with respect to said base and each other.

3. A loose leaf binder including a supporting base, a plurality of binder sections each section consisting of a pair of detachably associated complementary laterally expandible members adapted to engage a predetermined section of said contents, each member being identical and including pins projecting at right angles therefrom and expandible to bind an amount of said contents corresponding in thickness substantially to twice the length of said pins, said binder sections detachably connected with said base, a pair of end binder members engageable with the outer leaves of the combined binder contents, the binder sections and said end binder members being expansibly adjustable with respect to each other and said base, whereby any selected section may be removed from said base, leaves added to or removed therefrom and replaced without disturbing the other sections of the contents, and means carried by said end binder members to lock them in adjusted position.

4. A loose leaf binder including a supporting base, a pair of end retaining and leaf supporting members adjustably carried by said base and having locking means, said members adapted to engage the outer leaves of the binder contents and lockingly maintain the same in binding relation, a plurality of binder sections, each section consisting of a pair of laterally expandible relatively adjustable members, each of said binder sections being identical and formed with right angularly extending pins, the expandible binding range of said sections being substantially twice the length of said pins, said sections being detachably connected to said base, resilient means carried by the base coacting with said sections to normally maintain the same in position, each of the sections being expansibly adjustable and movable as a unit with respect to said base, whereby each binder section is individually expandible with respect to its contents and said base, and said end retaining members expandible to maintain the combined contents in binding relation.

5. In a catalogue binder, a supporting base or rack member having spaced anchor means, end binder members slidably mounted intermediate said anchor means, individual catalogue expandible binder sections having their ends engageable with said anchor means, each binder section consisting of a pair of laterally expandible binder strips, each of said binder strips being identical and formed with right angularly extending pins, the expandible binding range of said strips being

substantially twice the length of said pins, and means associated with one of said anchor means and coacting with said sections to normally maintain them in position, said binder sections and  
 5 end binder members being slidably adjustable with respect to said base and each other.

6. A catalogue binder and holder adapted to bind a plurality of catalogues, comprising a supporting base having spaced anchor means, and  
 10 binder members adapted to engage the exposed ends of the combined catalogues and adapted to normally maintain the same in binding relation, individual catalogue expansible binder sections slidably mounted intermediate said anchor  
 15 means, each section consisting of a pair of detachably associated laterally expansible binder strips, each of said binder strips being identical and formed with impaling pins, the expansible binding range of said strips being substantially  
 20 twice the length of said pins, and means associated with one of said anchor means coacting with said sections to normally maintain them in fixed position, said binder sections and end binder members being relatively adjustable with  
 25 respect to said base and each other, and means carried by said end members to lock said members in adjusted position.

7. A catalogue binder adapted to hold a series of catalogues, comprising a supporting base rack  
 30 member having spaced channel members, end binder members slidably mounted intermediate said channel members and adapted to adjustably engage the exposed ends of the catalogue contents to maintain the same in binding relation, means for locking said end members in  
 35 adjusted position, individual catalogue expansible binder sections, each binder section consisting of a pair of laterally expansible detachably associated strips having their ends engageable in said channels, each of said strips being identical and  
 40 formed with right angularly extending pins, and when in binding position the pins of the respective strips extending in opposite directions, the expansible binding range of said strips being  
 45 substantially twice the length of said pins, and compressible means mounted in one of said channels coacting with said strips to normally maintain them in fixed position, whereby said end members and binder sections are expansibly ad-  
 50 justable with respect to said base and each other.

8. A loose-leaf binder adapted to bind a plurality of catalogues and the like including a supporting base, said base having a longitudinally extending rod spaced thereabove, said base  
 5 formed adjacent its longitudinal edges with raised platform supports formed with channels along their free edges, a pair of adjustable leaf supporting and retaining end members engage-  
 10 able with the outer leaves of the binder contents, means carried by said end members and engageable with said rod to automatically lock said members in adjusted position, a plurality of ex-  
 15 pansible binder sections supported on said platforms with their ends adjustably engageable in said channels, resilient means mounted in one of said channels engageable with the ends of said sections, each of said sections comprising a pair  
 20 of identical binder strips formed with leaf supporting pins, the pins of the respective strips extending in opposite directions, the expansible binding range of said strips being substantially twice the length of said pins, the respective outer  
 25 leaf engageable end members and said binder sections being individually adjustable with respect to each other and said base, and adjustable as a unit with respect to said base.

9. A loose leaf binder adapted to bind a plurality of catalogues including a supporting base, said catalogues having respective series of open-  
 30 ings at their bindable edges, a pair of adjustable leaf supporting and retaining members engageable with the outer leaves of the binder contents, means carried by said leaf supporting members for effecting locking of said members in ad-  
 35 justed position, a plurality of binder sections, each section adapted to bind a respective catalogue, each of said sections consisting of a pair of detachably associated laterally expansible identical binder strips adapted to be relatively  
 40 adjustable and each strip having leaf holding elements corresponding in number to one-half of the openings formed in said catalogue, and so arranged that when one strip is reversed with respect to the other, the holding elements of the pair of strips correspond in number and arrange-  
 45 ment to the series of openings in which they are engageable, the binding range of said strips being substantially twice the length of said holding elements.

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