

Jan. 22, 1952

R. V. McDONALD

2,583,224

PAPER BINDER

Filed July 7, 1949

Fig. 1.

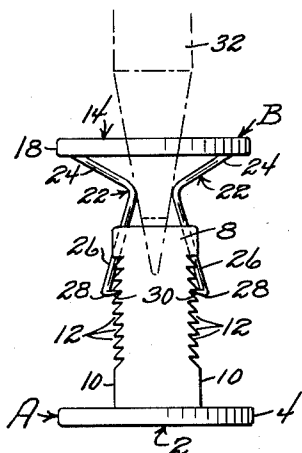


Fig. 2.

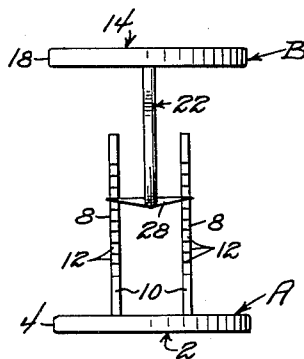


Fig. 3.

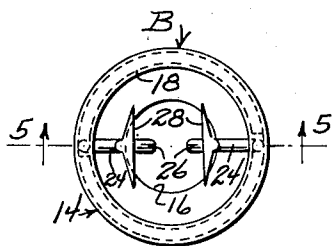


Fig. 4.

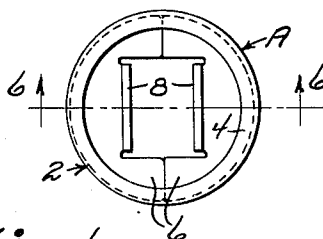


Fig. 5.

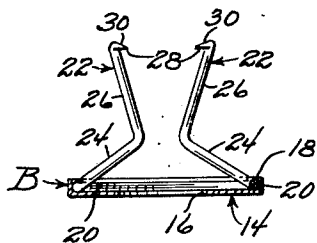
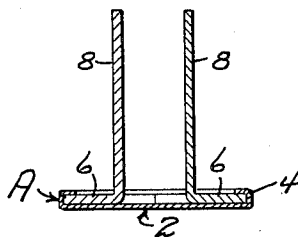


Fig. 6.



INVENTOR.

Richard V. McDonald

BY *Victor J. Evans & Co.*

ATTORNEYS

UNITED STATES PATENT OFFICE

2,583,224

PAPER BINDER

Richard V. McDonald, Amarillo, Tex.

Application July 7, 1949, Serial No. 103,494

1 Claim. (Cl. 24—66)

1

My present invention relates to an improved paper binder of the type especially adapted for use in securing or binding together sheets of paper wherein the binder or fastener passes through pre-formed perforations in the sheets.

The binder of my invention comprises two separable elements which are detachably secured so that one element extends inwardly from the back and one inwardly from the front of the stocked perforated sheets to be secured in the passage through the sheets.

In the accompanying drawings I have illustrated one complete example of the physical embodiment of my invention according to the best mode I have thus far devised, but it will be understood that various changes and alterations may be made in the exemplified structure within the scope of the appended claim.

In the drawings:

Fig. 1 is a front elevational view of the assembled binder of my invention.

Fig. 2 is a side view thereof.

Fig. 3 is a top plan view thereof.

Fig. 4 is a top plan view of the rear element.

Fig. 5 is a sectional view at line 5—5 of Fig. 3.

Fig. 6 is a sectional view at line 6—6 of Fig. 4.

Referring now to the drawings wherein I have illustrated the present preferred embodiment of my invention I employ two elements generally designated as A and B.

Element A, the rear element, consists in a stop disk 2 having a flange 4 securing the semi-circular bases 6 formed with upturned plates 8 parallel to and spaced from each other. The disk 2 and flange 4 form a stop from the element A and the plates 8 are extended into and through the aligned perforations of sheets of paper to be bound.

The edges 10 of the plates are serrated or notched as at 12 to retain the hereinafter described gripping members of element B.

Element B consists of a disk 14 having an open center 16 and peripheral flange 18 to receive and retain the semi-circular portions 20 of the spring wire clips 22. These clips are formed with converging and diverging portions 24 and 26 respectively and the ends of the portions 26 are provided with lateral arms 28, beveled as at 30 and of sufficient length to engage the notched edges of the parallel plates 8.

Inasmuch as each notch has a horizontal upper face and a declining lower face, the arms 28 will

2

slip over the teeth when pressed upon the element A, but the horizontal faces of the teeth will prevent retrograde movement of element B unless the arms are disengaged as by the insertion of a pencil, as 32, through the open center 16 and between the angular connection of portions 24 and 26 of the spring clips.

Thus it will be clear, that the operating elements of the device will, when in use, be confined in the aligned apertures of the paper sheets, and the elements A and B may be quickly and easily assembled and disassembled so that the binder may be used with facility, and due to its simple construction will be easy and inexpensive to manufacture.

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

A separable fastener for perforated sheets comprising, a rear element having a disk with an inner annular groove, a pair of plates secured in said groove, spaced parallel members extending perpendicularly from said plates and having teeth on their outer edges, a front element having a disk with an inner annular groove and an opening in the center therethrough, a pair of L-shaped aligned spring wire clips, having their apexes side by side near the axis of the fastener, the upper ends of said clips engaging the groove of the disk, and the lower ends of the clips carrying cross bars, said cross bars engaging the outer edges of the spaced parallel members of the rear element to adjustably secure the front and rear element of the fastener.

RICHARD V. McDONALD.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
203,308	Wood	May 7, 1878
215,956	Miller	May 27, 1879
802,664	Schulz	Oct. 24, 1905
1,056,452	Rembitt	Mar. 18, 1913
1,137,918	Sjoberg	May 4, 1915
1,236,458	McDonald	Aug. 14, 1917
1,425,618	Vodicka	Aug. 15, 1922
1,774,134	Dwyer	Aug. 26, 1930
2,461,309	Cedar	Feb. 8, 1949