J. C. DE NOYER.

REPAIR CLIP.

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1,247,087.

Patented Nov. 20, 1917.

Fig. 1.

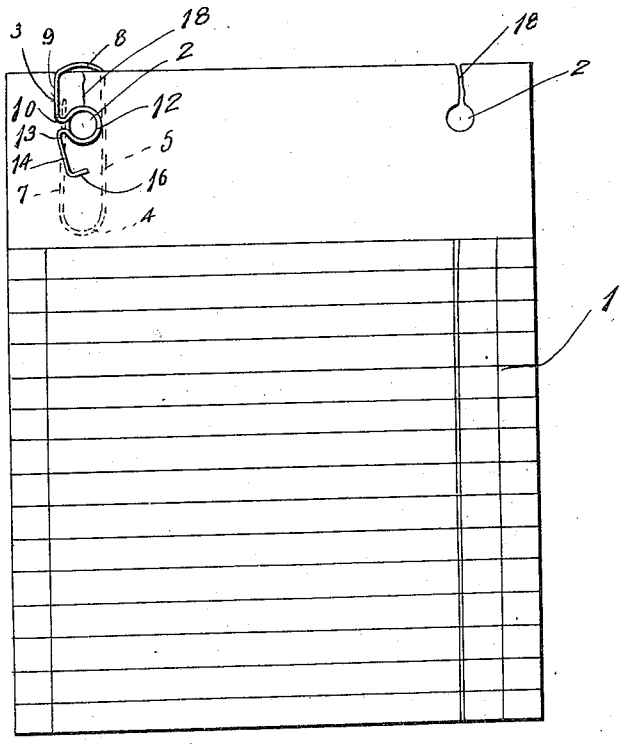
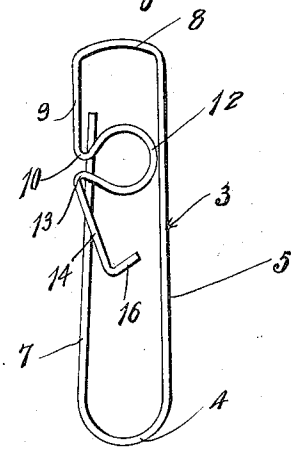


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

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REPAIR-CLIP.

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To all whom it may concern:

Be it known that I, JOSEPH C. DE NOYER, a citizen of the United States, residing at Starkweather, in the county of Ramsey and State of North Dakota, have invented certain new and useful Improvements in Repair-Clips; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in repair clips.

The object of this invention, is to provide a clip especially adapted for use in connection with loose-leaf ledgers, whereby when the openings in the loose-leaf ledger pull out, a clip may be arranged over the opening, and is constructed so as to provide means whereby the opening may be repaired by the walls of the opening being substituted, so that the leaves may be replaced in the ledger and thereby obviating the necessity of rewriting the leaf or destroying the original leaf and substituting the same with a new one, and also preventing loss of the sheet from the ledger.

Another object of this invention is the provision of a repair clip which is adapted to be used in connection with loose-leaf ledgers when the wall of the opening has been pulled out. The clip is then placed over the opening to form the walls of the original opening, to thereby render the leaf capable of being replaced in the ledger and avoiding loss of the sheet.

A further object of this invention is the provision of a repair clip for loose-leaf ledgers which is formed of a single piece of wire looped to provide a device capable of being applied about an opening in the leaf of the ledger when the opening has been pulled out, thereby obviating the necessity of rewriting the entire sheet of the ledger and preventing the loss of this leaf due to the fact that the opening has been pulled out, the same can easily be lost from the ledger.

A still further object of this invention is the provision of a repair clip of this character, which will be simple, practical and comparatively inexpensive in construction and one that can be manufactured and sold at a low cost.

With these and other objects in view, the invention consists of the novel combination and arrangement of parts, hereinafter more fully described and set forth in the claims hereto appended.

In the drawing:

Figure 1 is a plan view illustrating my improved clip applied to a ledger sheet,

Fig. 2 is a plan view of the clip as made in accordance with this invention.

Like numerals of reference designate corresponding parts in all the figures of the drawing.

Referring more particularly to the drawing, the numeral 1 designates a rectangular loose-leaf ledger sheet, which is provided adjacent its upper edge with the spaced openings 2, which openings facilitate the securing of the device in the ledger and this sheet illustrates my improved clip in position thereon.

My improved clip designated in its entirety by the numeral 3 is constructed of a single piece of resilient wire, curved intermediate its ends as at 4 to provide a vertical arm 5, and the upwardly and inwardly inclined arm 7. The arm 5 is of a greater length than the arm 7 and has its extreme upper terminal bent at right angles thereto as at 8 and overlies the terminal of the arm 7. The terminal of the horizontal portion 8 is bent downwardly as at 9 to provide the spaced parallel arm, which coöperates with the vertical arm 5 to provide the supporting members. The terminal of the arm 9 is curved inwardly as at 10 and looped as at 12 and the free terminal of the loop crosses the arm 7 adjacent the upper end thereof as at 13 and projects forwardly beyond the same. The free end of the loop 13 is bent back upon itself and inclines inwardly as at 14 and crosses the arm 7 and terminates between the arms 5 and 7 and has its end bent angularly as at 16 to provide a retaining member, and positioning the loop inwardly between the arms 5 and 7 at the upper ends thereof, and this loop is adapted to surround the openings 2 in the ledger to form the walls of the same so that the ledger sheet may be replaced in the ledger and loss of the same obviated.

It can be readily understood that the upper horizontal wall 8 limits the movement of the device on the sheet and the mem-

ber 16 and arms 5 and 7 retain the same thereon and position the loop 12 about the openings 2 in the sheet.

When in use:

The ledger sheet has applied thereto, the clip 3 when the wall of the opening 2 has pulled away as shown at 18, and it can be readily seen that the portion 4 and arms 5 and 7 are located on the rear sheet, thus positioning the arms 9, 14 and 16 on the forward face of the sheet, forcing the horizontal portion 8 into engagement with the upper edge of the sheet and positioning or locating the loop 12 about the opening 2, thus constituting a new opening, which receives the ring or fastening means for securing the leaf back into the ledger.

What is claimed is:

1. A repair clip comprising a pair of clamping members, adapted to engage the opposite sides of a ledger sheet to secure the clip thereto and a loop carried by and located in the plane of one of said members.

2. A clip for a loose leaf ledger sheet having a loop adapted to engage the sheet and register with the opening in the sheet, and means carried by the loop engaging the opposite sides of the sheet to secure the clip thereto.

3. A clip for loose leaf ledger sheets comprising a pair of clamping members adapted to engage the opposite sides of the sheet, and a loop adapted to engage the sheet and register with the opening in the sheet.

4. A clip for loose leaf ledger sheets comprising a pair of clamping members adapted to be engaged with opposite sides of the sheets, and a loop located in the plane of one of said members and adapted to engage the sheets and register with the opening in the sheets.

5. A clip for loose leaf ledger sheets comprising a pair of clamping members adapted to be engaged with opposite sides of the sheets, and a loop carried by one of the members and adapted to be registered with the openings in the sheets, and a retaining member carried by one of the members.

6. A clip comprising a pair of clamping members, a horizontally disposed loop carried by one of the members and adapted to register with an opening in a loose leaf ledger sheet, and a retaining member carried by said loop.

7. A clip for loose leaf ledger sheets comprising a pair of clamping members, a loop carried by one of said clamping members and adapted to be alined with the opening in the sheet to reinforce the same, and a retaining member carried by the loop and disposed in the plane of one of the clamping members.

8. A clip for loose leaf ledger sheets having a pair of clamping members, a horizontally disposed loop carried by one of the clamping members to be positioned about the openings in the sheets, and a retaining member carried by the loop and located in the plane of one of the clamping members.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH C. DE NOYER.

Witnesses:
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."