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LOOSE LEAF RECORD BINDER Filed Nov. 12 / 1921

G. W. NEWMAN

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LOOSE LEAF RECORD BINDER

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/ilc GEORGE W. NEWMAN Alparks W/

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UNITED STATES PATENT OFFICE.

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GEORGE W. NEWMAN, OF CHICAGO, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO WILSON-JONES LOOSE LEAF COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION MASSACHUSETTS.

LOOSE-LEAF-RECORD BINDER.

Application filed November 12, 1921. Serial No. 514,459.

To all whom it may concern: Be it known that I, GEORGE W. NEWMAN, Figure 2 upon an enlarged scale. a citizen of the United States, and a resident of the city of Chicago, in the county of 5 Cook and State of Illinois, have invented certain new and useful Improvements in a Loose-Leaf-Record Binder; and I do hereby declare that the following is a full, clear, and exact description of the same, refer-10 ence being had to the accompanying drawspecification.

15 preferably of that type in which records are adapted to be kept.

Figure 5 is a section on the line 5—5 of Figure 6 is a section similar to Figure 5 but with the lock holding element removed. 55 Figure 7 is a section on the line 7-7 of Figure 2 upon an enlarged scale. Figure 8 is a section upon the line 8-8 of Figure 2 upon an enlarged scale. Figure 9 is a perspective view of the com- 60 pleted binder.

ings, and to the numerals of reference In the accompanying drawings which marked thereon, which form a part of this illustrate one embodiment of my invention, the binder is represented as comprising This invention relates to loose leaf binders covers 1 and a back 1^a which may be va- 65 riously constructed to accommodate at suitable locations on the inner sides thereof the It is an object of this invention to pro- novel hinge members 2 which are attached vide a binder in which the record leaves thereto and which are provided with hinge can be readily inserted and removed from connections adapted to removably engage 70 record leaves can be permanently locked and which hinge connections are adapted to be permanently locked in operative hinged It is a further object of this invention position by releasable locking members to provide a binder in which the cover is when the binder is full or when it is desired 75 leaves and to which it can be permanently ing the records contained therein. While the present embodiment of my invention shows the cover removably hinged to both ends of the impaling means, it should be 80 understood that it is not necessary to removably hinge the cover to both ends of the impaling means in all cases. In the present instance, the hinge members 2 are constructed of thin metal plates, 85 one of which is illustrated in Figures 1 to 3. As shown, one margin of the plate forming a hinge member is provided with spaced recesses 3 adapted to receive the impaling posts 4 and the spaced marginal edges there- 90 of are rolled up to provide spaced tubular guideways 2^a for receiving the hinge connections which consist of hinge pintles 5 provided upon spaced arms 7 of a carrier or device 6 slidably supported upon the 95 hinge member 2; the coiled or rolled walls of the guideways being sufficiently spaced from the plate member 2 to freely admit the arms 7. These pintles 5 are so spaced upon the carriers that they can be shifted 100 to span the recesses 3 to hingedly engage the impaling posts 4. The pintle carrier 6

20 either the top or bottom and in which the the means used to impale the loose leaves when desired.

25 removably hinged to the stack of impaled to store the same for the purpose of keeplocked or secured.

With these and other objects in view which will become more apparent in the 30 following description and disclosures in the drawings, this invention comprises the novel mechanisms and combinations hereinafter described and more particularly pointed out and defined in the appended claims. In the accompanying drawings which 35illustrate a preferred embodiment of my invention and in which similar reference numerals refer to similar features in the different views:

40 Figure 1 is an enlarged inner fragmentary plan view of a binder involving my invention.

Figure 2 is a rear plan view of a novel hinge member upon an enlarged scale in-45 volving my invention.

Figure 3 is a rear plan view of the slidable hinge pintle carrier removed from the hinge member upon an enlarged scale. Figure 4 is an enlarged section through 50 an assembled binder containing my invention.

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is slidably anchored to the hinge member 2 by means of a lug 7^a secured at one end erably from end to end of the covers. The to the hinge member 2 and provided with members are so constructed that the lugs 8 a raised lip or flange upon the other end for 5 overlapping the device or carrier 6.

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At an appropriate location and preferably opposite the lug 7^a the carrier is provided upon its side adjacent the hinge member with a finger operating lug or projection 8 (Figure 1) which projects through a slot 9 in the hinge member whereby the hinge conative positions with respect to the impaling posts and thus wise limits the movement of the carrier.

same as shown in Figure 4 and extend prefand releasing elements have their operating ends directed inwardly, the latter of 70 which may be covered with a proper seal to be broken only when it is desired to withdraw the releasing elements 13 and permanently lock the binder.

The leaf impaling posts to which the 75 cover is removably hinged are preferably nections may be shifted from the inner sides of rectangular form with hinge eyelets 4^{a} of the cover. The length of the slot 9 is at their ends in which the hinge pintles 5 freely fit for effecting a hinge connection designed with reference to the necessary 15 length of movement required to shift the between the covers and leaves of the binder. 80 hinge connections from operative to inoper-It should be noted with reference to Figure 1 that the eyelets of the impaling posts 4 fit in the recesses 3 of the hinge members 2 providing thereby a strong durable structure that cannot readily be distorted. In 85 The hinge connections are adapted to be 20order to assemble the posts and cover, it is permanently locked in their operative posionly necessary to position the impaling tion in hinged relation with the impaling posts with their eyelets in the recesses 3 and posts when it is desired to preserve the binder and records thereof. For this purshift the hinge connections to operative po-25 pose coacting locking means have been prosition whereby the pintles 5 will enter the 90 evelets in the impaling posts. vided on the slidable carrier 6 and the hinge member 2 which can be brought into locking In the use of a binder involving my inrelation when the carrier has been shifted to vention it is obvious that the leaves may operative hinged position. While the coreadily be inserted or removed from either 30 acting locking means may assume various the top or bottom thereof by simply discon-⁹⁵ forms, for the purpose of illustrating my necting either the top or bottom cover from invention, I have shown a simple notch 10 the impaling posts by shifting the pintle carrier thereof to inoperative position; and in the shiftable pintle carrier 6 designed to receive a lug or projection 11 on a resilient when the capacity of the binder has been reached and it is desired to preserve the 100 35 locking tongue or member 12 secured at its outer end upon the hinge plate 2. same with the records retained therein, the The locking tongue 12 is normally held lock releasing elements may be withdrawn, above or in inoperative relation with rewhereby the locking members will spring spect to the notch 10 by means of a releasdownwardly so that the lugs 11 will engage 40 ing element 13 normally confined beneath the notches 10. As these locking members 105are located on the rear sides of the hinge the locking member or tongue 12 and which can be withdrawn from the inner side of members 2 with respect to the inner sides of the cover, it is obvious that they are inacthe cover to allow the member 12 to descend and engage the notch. For this purpose a cessible and cannot be released, so that the 45 narrow groove 14 is stamped in the hinge binder covers are permanently locked to the 110 member 2 from the inner side thereof to a leaves. which cannot be withdrawn. point adjacent the locking member 12 where It will accordingly be apparent that I an aperture is provided for receiving the have invented a strong, durable binder, in element 13 which may be in the form of a which leaves can be readily inserted or re-50 pin having its outer end bent at right angles moved from both the top and bottom, and 115 as shown in Figure 8, whereby the same in which the cover can be permanently can be readily grasped by the fingers and locked to the leaves. withdrawn lengthwise in the groove to re- I am aware that numerous details of conlease the locking member 12 for downward struction may be varied through a wide 55 movement against the carrier 6, the locking range without departing from the principles 120 projection 11 of which will immediately of this invention, and I therefore do not snap into the notch 10 of the carrier 6 and purpose limiting the patent granted otherpermanently lock the same in its operative wise than necessitated by the prior art. position, when the said carrier has been I claim as my invention: 60 shifted so that the hinge connections engage 1. In a loose leaf binder, a cover, a plu- 125 the impaling posts 4. rality of impaling posts, each connected at These hinge members are embedded beone of its ends to said cover, and means for neath a lining 15 or the like in the inner pivotally connecting the other ends of said rear portions of the covers 1 which are proposts with said cover comprising a plate 65 vided with recessed portions to receive the member secured to the inner side of said 180

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able in said guideway for engaging said 5 posts, said hinge member having a notch, a resilient tongue attached at one end to said plate member, and removable means positioned under said tongue for normally holding the same in elevated position above said 10 hinge member for the purpose described. 2. In a loose leaf binder, a cover, a plupivotally connecting and permanently lock- with said member, and a releasable element ing said cover to said posts comprising a normally in contacting engagement with slidable hinge member for connecting said posts to said cover and having a notch, a resilient member fixed at one end with its free end normally lying over said slidable member, and removable means positioned 10 under said resilient member for normally holding the same in elevated position, the removal of said means allowing said resilient member to flex downwardly for en-

cover and having pintle guideways, with gaging said notch and permanently lockspaced notches for receiving said impaling ing said hinge member when the same is in 25 posts, a hinge member having pintles slid- operative engagement with said impaling posts.

3. In a loose leaf binder, a plurality of impaling posts, a cover hingedly connected at one side to said posts, a shiftable mem- 30 ber for releasably hinging the other side of said cover with said posts, and means for permanently locking said shiftable member in its operative position comprising an elerality of impaling posts, and means for ment adapted for interlocking engagement 35 said interlocking element for holding the same in its unlocking position. In testimony whereof I have hereunto 40 subscribed my name in the presence of two subscribing witnesses. GEORGE W. NEWMAN. Witnesses: FRANK L. SEVERANCE, HORACE W. SEVERANCE.

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