Dec. 1, 1925. 1,563,864

O. JUVET

OPERATING AND MAINTENANCE RECORD FOR VEHICLES

Filed Dec. 1, 1924 2 Sheets-Sheet 1

Fig. 1.

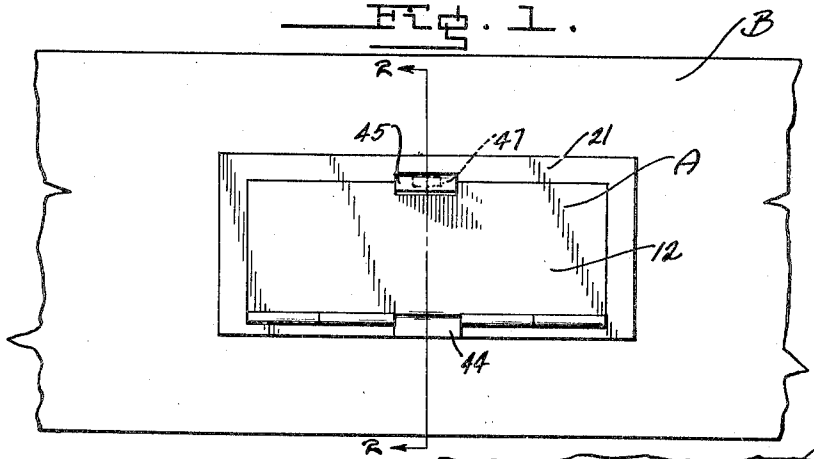


Fig. 5.

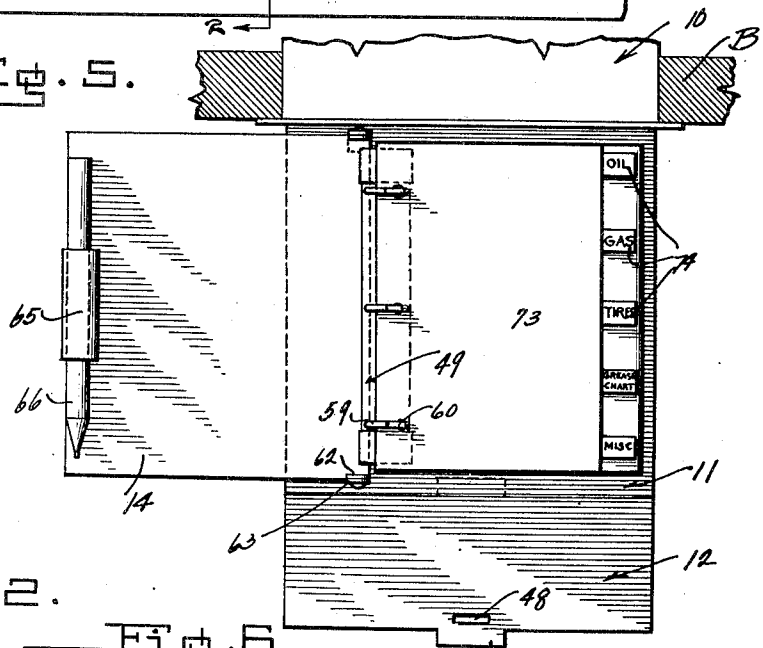


Fig. 2.

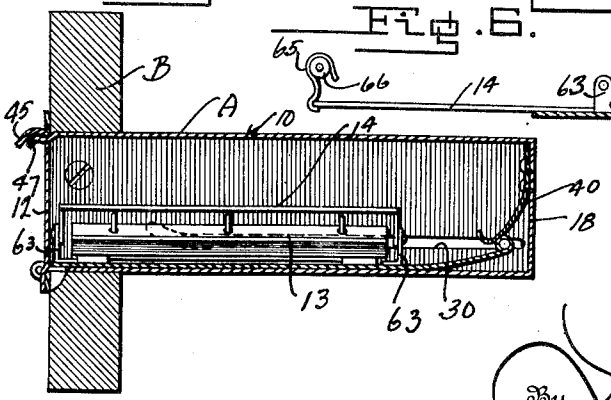


Fig. 6.

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Fig. 3.

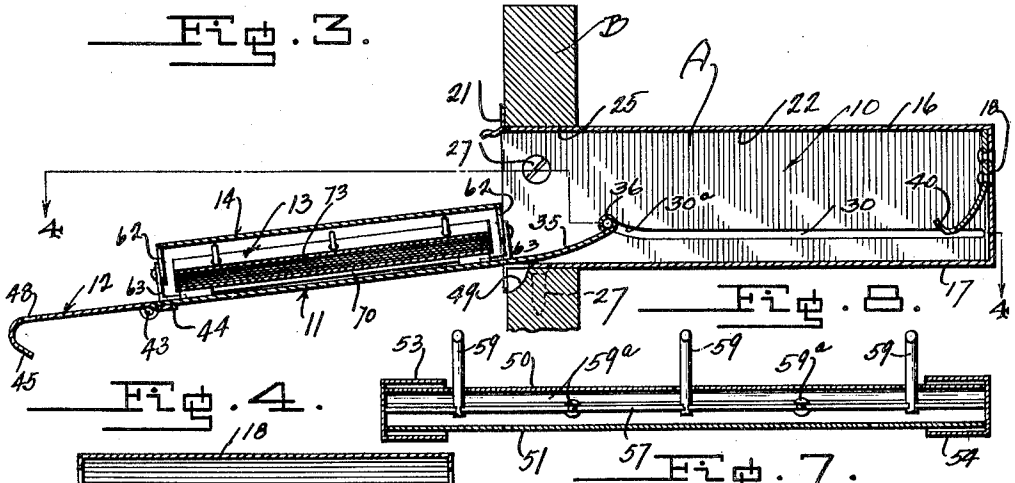


Fig. 8.

Fig. 4.

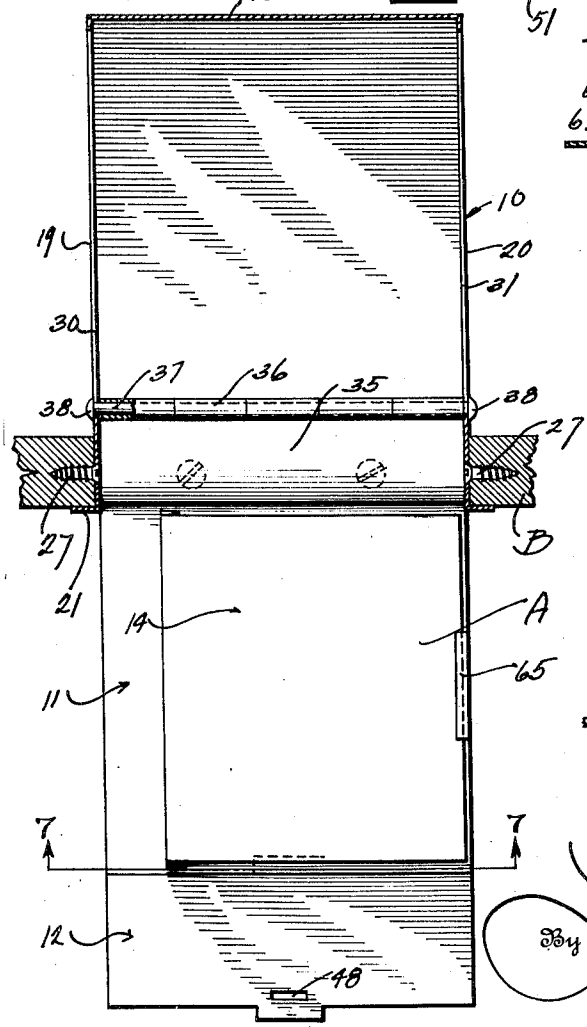


Fig. 7.

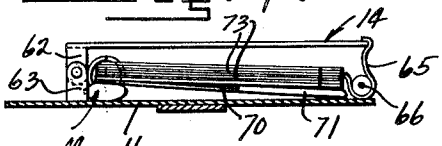


Fig. 9.

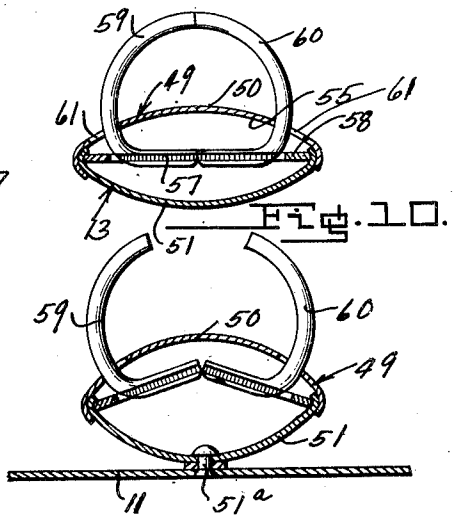


Fig. 10.

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UNITED STATES PATENT OFFICE.

OBEL JUVET, OF FERNDALE, WASHINGTON.

OPERATING AND MAINTENANCE RECORD FOR VEHICLES.

Application filed December 1, 1924. Serial No. 753,349.

To all whom it may concern:

Be it known that I, OBEL JUVET, a citizen of the United States, residing at Ferndale, in the county of Whatcom and State of Washington, have invented certain new and useful Improvements in an Operating and Maintenance Record for Vehicles, of which the following is a specification.

This invention relates to improvements in maintenance records.

The primary object of the invention is the provision of improved maintenance record structure which may be used on automotive vehicles, for the purpose of recording expenditures in connection therewith, etc.

A further object of this invention is the provision of an improved maintenance record which may be compactly associated with a vehicle, such as on the instrument board thereof, and included as a permanent part thereof, for the purpose of expeditiously entering expenditures and other facts in connection with the maintenance and operation of the automotive vehicle.

Other objects and advantages of this invention consist more specifically in the details of the improved maintenance record, and will be apparent during the course of the following detailed description.

In the accompanying drawings, forming a part of this specification, and wherein similar reference characters designate corresponding parts throughout the several views,

Figure 1 is a front elevation, showing the application of the improved maintenance record, upon a vehicle instrument board, or the like, showing it in closed position.

Figure 2 is a cross sectional view taken through the improved maintenance record in closed position substantially on the line 2—2 of Figure 1.

Figure 3 is a cross sectional view taken through the improved maintenance record, showing the same open and in position to permit entry of record data upon the leaves of the file portion thereof.

Figure 4 is a view taken substantially on the line 4—4 of Figure 3.

Figure 5 is a fragmentary plan view of the loose leaf binder and indexing features of the invention, with the improved record open.

Figure 6 is a cross sectional view taken through the loose leaf binder and index portion of the improved records, with the details as positioned in Figure 5.

Figure 7 is a cross sectional view taken substantially on the line 7—7 of Figure 4.

Figure 8 is a cross sectional view taken longitudinally through the loose leaf binder structure used with this invention.

Figures 9 and 10 are cross sectional views taken through the loose leaf binder structure of the improved maintenance record, showing the same in closed and open positions.

In the drawings, wherein for the purpose of illustration is shown only a preferred embodiment of this invention the letter A may generally designate the improved maintenance record, which is preferably adapted for use upon a support such as an instrument board B.

The maintenance record construction preferably includes a casing 10; supporting member or plate 11; closure 12 which likewise acts as a support with the plate 11; loose leaf binder means 13; and lid member 14.

The casing 10 is preferably of sheet metal, and rectangular in formation, including the top and bottom walls 16 and 17 respectively; front wall 18; and side walls 19 and 20; all of said walls except the rear wall 18 at their rear edges being outwardly flanged, to provide the rectangular retaining flange 21; the compartment 22 of the casing 10 being opened from this end of the casing to accommodate details of the maintenance record, as will be subsequently mentioned. The casing 10 is preferably supported in an opening 25 provided in the supporting wall or instrument board B, and so that the retaining flanges 21 abut the outer surface of the instrument board B, substantially as is illustrated in the drawings. In this position the casing 10 extends forwardly from the plane of the instrument board B, preferably at right angles, and the casing thus has a very compact assemblage upon the instrument board, with the depth of the casing running transversely of said instrument board. The casing 10 is preferably attached to the instrument board B by means of screws 27, or like securing elements, extending transversely through the side walls 19 and 20

and the base wall 17, as is illustrated in the drawings. By this arrangement the heads of the screws face the compartment 22, and the attachment elements 27 are not visible at the instrument board side of the casing. The side walls 19 and 20 are preferably provided with longitudinally extending slots 30 and 31 therein, and which slots 30 and 31 at the rear end of the casing, are upturned, at 30ª, to cooperate with the support of the filing leaves, as will be subsequently described.

The support member 11, on which the loose leaf binder structure is carried, is preferably formed of a sheet of metal, or any approved material adaptable for the purpose. It is preferably rectangular in formation, and of just sufficient width that the same may comfortably slide in the compartment 22. For the major length thereof it is plane, and at the rear end 35 thereof it is upturned out of its plane, and rolled at 36, to support a pin 37 therethrough. This pin 37 at its ends extends into slots 30 and 31 of the casing 10, and is provided with heads 38 to prevent detachment of the pin from the casing and from the support member 11. The member 11 slides longitudinally within the casing 10, and when entirely disposed in the casing 10 it lies parallel upon the bottom 17 of the casing 10, except that at the front end the member 11 is upturned, as is illustrated in Figure 2 of the drawings. In order to withdraw the loose leaf binder supporting member 11 from the casing 10 it is merely necessary to rearwardly pull the same, and it will slide rearwardly through the opening in the casing 10, and as the pin 37 slides into the upwardly curved ends 30ª of the slots 30 and 31, the member 11 will tip downwardly at the instrument board B, to incline at a slight angle to the horizontal, whereby to facilitate entry of records on the leaves of the binder structure. In order to hold the loose leaf binder supporting member 11 in retracted position in the compartment of the casing 10, it is preferred to provide a spring 40, which at its lower end is arcuated, and adapted to snap behind the barrel portion 36 of the binder supporting member 11, when the latter is in retracted position in the compartment of the casing 10, and as is illustrated in Figure 2 of the drawings. In this position the spring 40 will hold the binder supporting member 11 retracted, requiring manual urge to displace the same from the casing. It is to be noted that the lower swinging end of the spring 40 is directly in the path of the barrel 36, to accomplish this function.

The closure 12 is preferably hingedly connected, as by a pintle 43, at the rear edge of the binder supporting member 11, and this closure 12 is provided with a laterally extending projection 44, which may engage beneath the binder supporting member 11 when the closure 12 is in open position, in order to support said closure 12 in substantially the same plane as the binder supporting member 11. This provides a platform for support of a person's hand when writing on the leaves of the binder structure. The closure 12 is provided with a finger engaging projection 45, at the free edge thereof.

In closed position when the binder supporting member 11 is in the casing 10, the closure 12 may be swung from a horizontal position upwardly into closed relation with the open end of the casing 10. It is held in closed position by means of a spring tongue 47, which engages through an opening 48 in the outer end of the closure 12, substantially as is illustrated in the drawings. It is to be noted that a recess 49 is preferably provided in the instrument board B, and in the rear end of the casing 10, to facilitate swinging of the lug 44 so that the closure 12 may be positioned in horizontal or closed vertical relation.

Referring to the construction of the loose leaf binder device 13, the same is preferably fixed upon the top surface of the member 11, longitudinally thereof, and preferably adjacent one side thereof. This loose leaf binder preferably comprises a back 49, in the form of a casing or housing which comprises the arcuate spring pieces 50 and 51, longitudinally connected at their edge, so that in cross section these portions provide an oval shaped chamber 55, with the piece 51 connected at 51ª to the member 11. At its ends the back 49 provides the caps 53 and 54 to enclose the compartment or chamber 55. Within the compartment it is preferred to provide ring supporting strips 57 and 58, which are preferably plane, and at their meeting edges are held in assembled relation by means of rivets 59ª. At the remote longitudinal edges thereof the same are in engagement with the meeting edges of the spring pieces 50 and 51 to normally retain the springs 50 and 51 under a tension with the strips 57 and 58 in the same plane. The improved loose leaf binder structure 13 includes a plurality of rings for supporting the loose leaves, and each of said rings includes segments 59 and 60, respectively supported by the strips 57 and 58, and extending through openings 61 provided in the top portion 50 of the binder back; the meeting edges of said ring segments 59 and 60 being adapted to move into spaced relation when the strips 57 and 58 are obliquely disposed, as is illustrated in Figure 10 of the drawings.

The lid 14 is preferably provided for cooperation over the loose leaves supported by the binder structure 13, and it is preferably formed of a one-piece body which at

opposite ends thereof, is provided with corner lugs 62, depending from the plane of the lid 14, and having openings therein adapted to align with openings provided in upstanding lugs or ears 63 carried by the loose leaf binder supporting member 11, adjacent the binder back 49. In closed position on the supporting member 11 the lid or support member 14 is located as is illustrated in Figure 7 of the drawings. At its free swinging end it is preferred to provide the same with a pencil supporting clip 65, which may support a pencil 66 longitudinally at the lower side thereof; the pencil clip being adapted to engage the supporting member 11 when the lid 14 is closed, as is illustrated in Figure 7 of the drawings. In open position the lid 14 swings as is illustrated in Figures 5 and 6 of the drawings, and when in open position the same is supported in open relation by the loose leaf binder supporting member 11, to receive the leaves from the loose leaf binder structure, and provide a support therefor.

In connection with the support of the loose leaves, it is preferred to provide a back leaf 70, which may have a pocket 71 therein, within which the driver's license; registration certificate; and like may be carried. The loose leaves 73 are carried by the rings of the binder structure 13, resting on the back 71, and these leaves 73 may be suitably indexed, with tabs 74, or like expedients, to ascertain the correct position in which particular entries may take place, in connection with recording data pertinent to the maintenance and operation of the vehicle upon which the improved maintenance record A is provided.

From the foregoing description of this invention it is apparent that a novel type of maintenance record has been provided, which may be compactly located on vehicle instrument boards and the like, in order to conveniently make entries pertinent to operation and maintenance of the vehicle.

Various changes in the shape, size, and arrangement of parts may be made to the form of invention herein shown and described, without departing from the spirit of this invention or the scope of the claims.

I claim:

1. In a maintenance record of the class described the combination of a casing having an opening therein, a supporting plate slidably connected to the casing so that it may be positioned within the casing or extended from the opening thereof in supported relation by said casing, and loose leaf binding means connected adjacent a side edge of said supporting plate.

2. In a maintenance record construction the combination of a supporting casing providing a compartment therein and having an opening at an end thereof, a supporting plate slidably connected to said casing so that the same may be disposed within the compartment of the casing or extended therefrom through the opening of the casing, and binder means carried by the supporting plate.

3. In a maintenance record construction the combination of a supporting casing providing a compartment therein and having an opening at an end thereof, a supporting plate slidably connected to said casing so that the same may be disposed within the compartment of the casing or extended therefrom through the opening of the casing, binder means carried by the supporting plate, and spring means carried within said casing for holding the supporting plate in retracted relation therein.

4. In a device of the class described the combination of a casing of substantially rectangular formation providing sides having slots longitudinally thereof, the slots at an end of said casing being upturned, a binder supporting plate, and pins carried by the binder supporting plate extending into said slots whereby the plate will be guided in its movement with respect to said casing, said pins when in the upturned portion of said slots being adapted to position the supporting plate in tipped relation outwardly of the opening of said casing.

5. In a device of the class described the combination of a casing of substantially rectangular formation providing sides having slots longitudinally thereof, the slots at an end of said casing being upturned, a binder supporting plate, pins carried by the binder supporting plate extending into said slots whereby the plate will be guided in its movement with respect to said casing, said pins when in the upturned portion of said slots being adapted to position the supporting plate in tipped relation outwardly of the opening of said casing, and spring means carried within said casing for engaging the supporting plate to hold the same retracted with respect to the casing.

6. In a record device of the class described the combination of a supporting case providing a compartment therein open at an end of said case, a supporting member, means slidably connecting the supporting member at its inner end to said case so that the supporting member may be slid entirely into the case and extended therefrom through the case opening to provide a table, record entry means on said supporting member, and closure means for the opening of said case.

7. In a device of the class described the combination of a casing open at an end thereof, a supporting member slidable in the casing adapted to extend through said opening and a member hingedly carried by said supporting member adapted to swing

closed over the opening of the casing when the supporting member is retracted in the casing.

8. In a device of the class described the combination of a casing open at an end thereof, a supporting member slidable in the casing adapted to extend through said opening, a member hingedly carried by said supporting member adapted to be closed over the opening of the casing when the supporting member is retracted in the casing, and loose leaf binding means supported by the supporting member and movable therewith.

9. In a device of the class described the combination of a supporting casing including side walls and being open at one end thereof, said side walls having slots extending longitudinally thereof which at the ends thereof adjacent said opening of the casing are upturned, a supporting member of plate-like formation including an upturned end, said upturned end having laterally extending projections extending into said slots for slidably connecting the supporting member to the casing whereby the supporting member may be extended in retracted relation in the casing or extended from the opening thereof into a tipped relation with respect to the casing when said projections are in the upturned portions of said slots, and closure means for the casing.

10. In a device of the class described the combination of a supporting casing including side walls and being open at one end thereof, said side walls and slots extending longitudinally thereof and at the ends thereof adjacent said opening of the casing being upturned, a supporting member of plate-like formation including an upturned end, said upturned end having laterally extending projections extending into said slots for slidably connecting the supporting member to the casing whereby the supporting member may be placed in retracted relation in the casing or extended from the opening thereof into a tipped relation with respect to the casing when said projections are in the upturned portions of said slots, closure means for the casing carried by said supporting member at the end thereof opposite to said projections, and loose leaf binder means carried by said supporting member.

11. In a device of the class described the combination of a casing, a supporting member connected with the casing for extension therefrom, binder means carried by the supporting member, and a member hingedly connected to said supporting member adapted for lateral extension therefrom when the supporting member is extended from the casing whereby to support leaves of said binder.

12. In a device of the class described the combination of a casing, a supporting member connected with the casing for extension therefrom, binder means carried by the supporting casing, a member hingedly connected to said supporting member adapted for lateral extension therefrom when the supporting member is extended from the casing whereby to support leaves of said binder, and a closure for the casing hingedly carried by said supporting member.

13. In combination a casing including top and bottom walls, side walls, and a front wall, said casing being open rearwardly thereof, said side walls having aligning slots extending longitudinally thereof which at their rear ends upturn toward said opening, a spring carried by the front wall extending into the casing and at its free end extending into the space between said slots, a supporting member including projections extending into said slots for guiding movement of the supporting member in retracted or extended relation from the casing, said member when within the casing being adapted to be engaged by said spring to hold the same retracted in the casing, a closure member for the casing hingedly carried at the rear end of said supporting member, and a loose leaf binder structure carried by said supporting member adjacent a side edge thereof.

14. In combination a casing including top and bottom walls, side walls, and a front wall, said casing being open rearwardly thereof, said side walls having aligning slots extending longitudinally thereof which at their rear ends upturn toward said opening, a spring carried by the front wall extending into the casing and at its free end extending into the space between said slots, a supporting member including projections extending into said slots for guiding movement of the supporting member in retracted or extended relation from the casing, said member when within the casing being adapted to be engaged by said spring to hold the same retracted in the casing, a closure member for the casing hingedly carried at the rear end of said supporting member, a loose leaf binder structure carried by said supporting member adjacent a side edge thereof, and a supporting lid pivotally carried by said supporting member upwardly thereof adapted for lateral swinging to be supported by the supporting member for receiving leaves of the loose leaf binder when open therefrom.

15. In a record device of the class described the combination of a supporting case providing a compartment therein open at an end of said case, a supporting member, means slidably connecting the supporting member at its inner end to said case so that the supporting member may be slid entirely into the case and extended therefrom through the case opening to provide a table, record entry means on said supporting mem-

ber, closure means for the opening of said case, and spring means carried by the supporting case at the inner end of its compartment for engaging the supporting member when the latter is retracted in the case to hold the same steady and normally retained within the case against accidental displacement.

16. In a maintenance record of the class described the combination of a casing having an opening therein, a supporting plate slidably carried within said casing and adapted to be extended through the opening thereof and supported in tipped relation thereby, a loose leaf binder member carried by said supporting member upwardly thereof at a side thereof, a closure member hinged to the outer end of said supporting member, and catch means for connecting the closure member to the casing to provide a closure for the opening thereof when the supporting member and binder are within the casing.

17. In a maintenance record of the class described the combination of a casing having an opening therein, a supporting plate slidably carried within said casing and adapted to be extended through the opening thereof and supported in tipped relation thereby, a loose leaf binder member carried by said supporting member upwardly thereof at a side thereof, a closure member hinged to the outer end of said supporting member, lock means for connecting the closure member to the casing to provide a closure for the opening thereof when the supporting member and binder are within the casing, and spring means for normally holding the supporting member within the casing.

18. In a maintenance record of the class described the combination of a casing having an opening therein, a supporting plate slidably carried within said casing and adapted to be extended through the opening thereof and supported in tipped relation thereby, a loose leaf binder member carried by said supporting member upwardly thereof at a side thereof, a closure member hinged to the outer end of said supporting member, latch means for connecting the closure member to the casing to provide a closure for the opening thereof when the supporting member and binder are within the casing, spring means for normally holding the supporting member within the casing, and a leaf supporting member hingedly connected to said first mentioned supporting member adapted for lateral extension therefrom when opened.

19. In combination a casing, a supporting plate slidably carried by the casing adapted for extension therefrom, closure means carried by said supporting member adapted to close the casing when the supporting member is within the casing, a ring shaped loose leaf binder carried by said supporting plate upwardly thereof and longitudinally at a side thereof, leaves carried by said binder within the area of the edges of said supporting plate, and a hinged leaf supporting member pivotally carried by said supporting plate adapted to close as a lid over said leaves within the edge area of said supporting plate to permit sliding with the supporting plate into said casing, and when extended from the casing being adapted to extend laterally from the supporting plate for supporting leaves.

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