Nov. 13, 1934. W. D. CATON 1,980,318

COMPOUND RECORD ASSEMBLY

Original Filed June 15, 1932 2 Sheets-Sheet 1

Fig. 1.

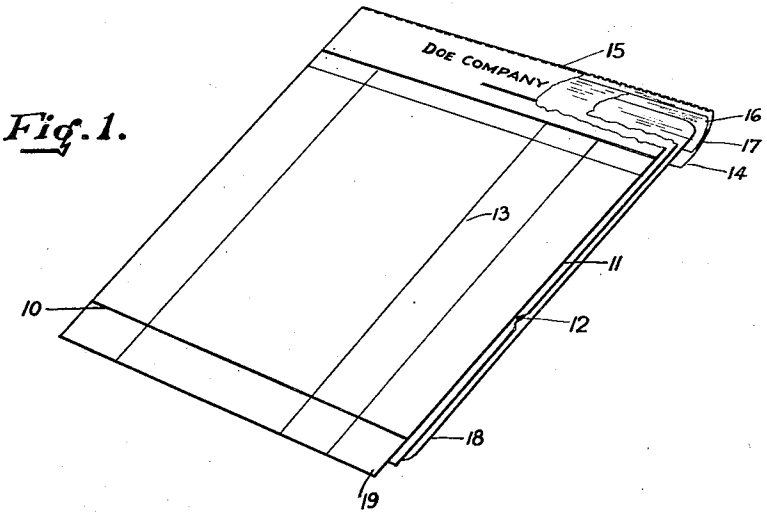


Fig. 2.

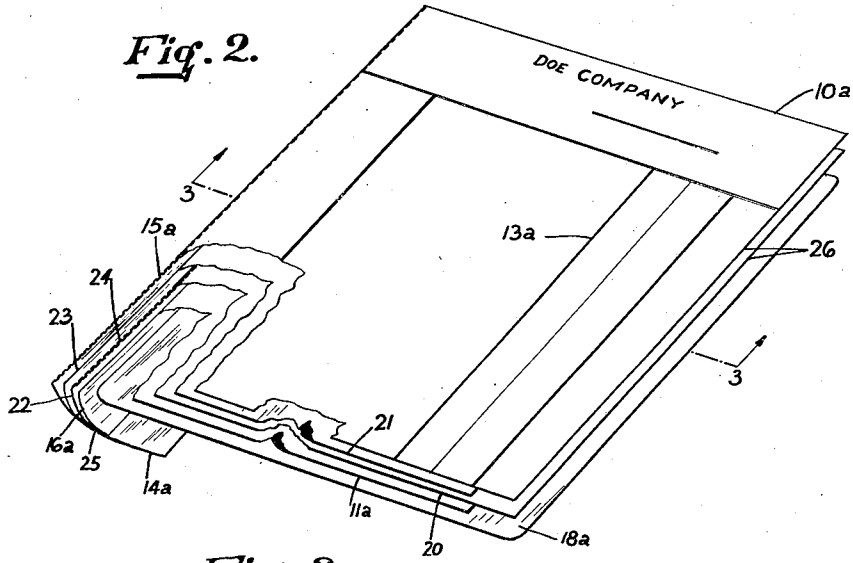
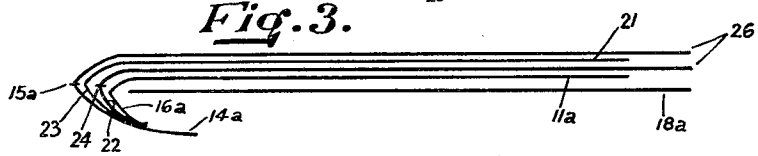


Fig. 3.



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Original Filed June 15, 1932 2 Sheets-Sheet 2

Fig. 4.

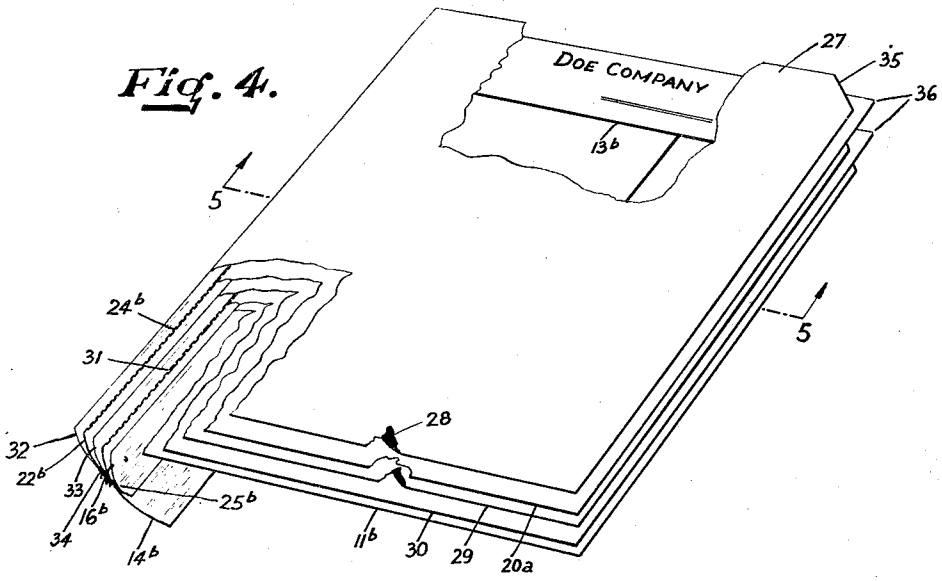
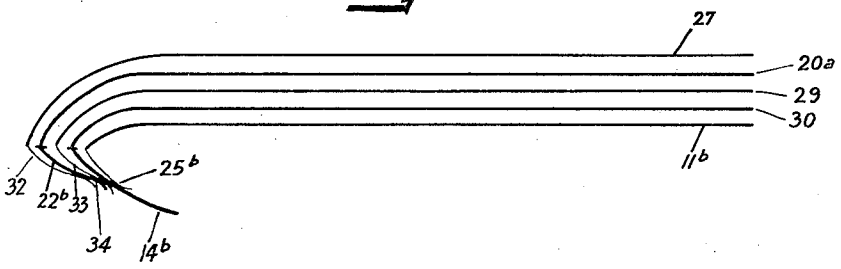


Fig. 5.



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UNITED STATES PATENT OFFICE

1,980,318

COMPOUND RECORD ASSEMBLY

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Application June 15, 1932, Serial No. 617,323
Renewed April 4, 1934

7 Claims. (Cl. 282—26)

This invention relates to improvements in manifolding record devices and more particularly with reference to some of its features it relates to improvements in a compound record assembly of record and transfer leaves attached together in a unitary pliable pad suitable for insertion in typewriting and similar manifolding machines for the reception of inscriptions thereon.

It is a general object of the invention to provide an improved compound manifolding device of the class mentioned embodying a plurality of record and transfer leaves connected together in a pliable assembly convenient for use in typewriting or other inscribing machines in such a manner as to avoid numerous time-consuming operations in the entry of various records such as bookkeeping records, periodical statements and the like.

Another object of the invention is to provide an improved manifolding assembly of the class mentioned and having a novel and advantageous arrangement of a transfer or carbon leaf at the outside of the assembly for utilization to transfer inscriptions to one of the record leaves of the assembly. This carbon leaf is so positioned that an additional record leaf or unit may be placed in overlying position and the inscriptions written thereon will be transferred by the transfer leaf to the underlying record leaf.

According to another feature of the invention, transfer leaves are placed at either one or both outside faces of the assembly in position to transfer inscriptions either to the assembly from an overlying leaf, or from the assembly to an underlying leaf or record unit.

Another object of the invention is to provide in a manifolding assembly of the class mentioned an improved attaching arrangement for attaching the leaves together in the assembly and for selectively detaching and separating the record and transfer leaves from each other after the entries have been made.

Other objects of the invention will be in part pointed out in the following detailed description of certain illustrative but preferred embodiments of the invention and will be in part obvious in connection therewith.

The invention accordingly comprises the features of construction, combinations of elements, and arrangement of parts, which will be exemplified in the article hereinafter described and the scope of the application of which will be indicated in the claims.

For a more complete understanding of the nature and objects of the invention, reference is had to the following detailed description and to the accompanying drawings in which

Fig. 1 is a perspective view of a manifolding assembly embodying the invention;

Fig. 2 is a similar view of another embodiment, parts being broken away and the leaves being separated so as to show the structure and arrangement;

Fig. 3 is a vertical section substantially on the line 3—3 of Fig. 2;

Fig. 4 is a view similar to Fig. 2 of another embodiment of the invention, and

Fig. 5 is a vertical section on the line 5—5 of Fig. 4.

For a detailed description of the invention, reference is first made to Fig. 1 illustrating a simplified form of the invention embodying a record leaf 10 which may be made of paper of any quality or color ordinarily employed for manifolding uses. A transfer or carbon leaf 11 is permanently attached to the record leaf so as to form a unitary manifolding assembly. Both the record and carbon leaves may be of any desired size and proportions but the carbon leaf is ordinarily of sufficient size to transfer the inscriptions made upon various parts of the record leaf although it will be understood that if desired transfer material may be omitted from restricted areas of the transfer sheet for the purpose of effecting selective transfer inscription. As shown, the transfer leaf is provided only on its undersurface with transfer material as indicated at 12, but may be employed on both sides of the leaf if desired. The record leaf may be provided with any desired ruling or blank form as indicated at 13 for accommodation of the particular work in hand.

In the embodiment of Fig. 1 a small leaf or tab 14 is attached near one edge of the assembly and reversely rearwardly turned or folded backwardly toward the opposite end. This tab, as shown, is made integral with the record leaf 10 being separated therefrom by a transverse fold line 15. The leaf 10 is also provided at or near its top or forward end with a transverse weakened severance line, this being shown as coincident with the fold line 15. The severance line may be formed by perforating, scoring or otherwise weakening the paper so as to facilitate severance of the record leaf.

As shown, the tab 14 forms a binding attachment or stub for the transfer leaf 11 which is provided at its top or forward end with a binding tab 16 formed by folding the end of the leaf reversely to form a loop or fold within the fold of

the binding and supporting tab 14. The tab 16 may be attached to the supporting tab 14 in any preferred manner as by pasting, wire stapling, stitching or similar means, as indicated at 17. It will be observed that the attachment 17, shown as a line of paste, is positioned beyond, that is, outside of the weakened severance line 15 of the record leaf for a purpose later described. Although the fold line of the carbon attaching tab 16 may be adjacent to the fold line 15, it will be noticed that the connection of the tab 16 to the transfer leaf is not perforated or weakened in any manner as is the line 15, but the material of the leaf at this point remains of its full original strength.

It will be noticed that the tab 14, constructed and arranged as shown and described, provides a support and guide for an additional record leaf or unit 18 which may be termed a ledger leaf, and as shown, is preferably separate from the assembly and held in correct register therewith for the purpose of transfer inscription thereto of records written upon the original record leaf 10. This ledger leaf 18 may be provided with any appropriate blank form corresponding to the form 13 and may be adjusted laterally into any desired position with reference to the assembly in which position it is supported by the supporting tab 14. When in position, as shown, the ledger leaf 18 has its upper record surface in contact with the transfer surface 12 to effect the transfer inscription. If desired, the ledger leaf 18 may be larger than the leaf 10 extending beyond the latter at the bottom or rear end of the assembly and also at the longitudinal edges, thus permitting lateral adjustment when desired.

In the form of Fig. 1, the supporting and guiding tab 14 is positioned at the top or forward end of the assembly forming a guiding and supporting loop for embracing the forward end of the ledger leaf 18. This tab, however, may be positioned at one of the longitudinal edges, as shown in Fig. 2, or at the bottom or rear end. Wherever positioned, it forms a guide and support for the ledger leaf. When at the forward end, as shown in Fig. 1, the fold formed by the tab 14 embraces the forward end of the assembly providing a smooth guiding envelope free from loose or projecting edges or corners, thus greatly facilitating entry of the assembly into a typewriter or other manifolding machine.

The bottom end of the record leaf 10 may, as shown, extend slightly beyond the adjacent end of the transfer leaf 11, thus forming a selective grip device 19 whereby the record leaf may be gripped to the exclusion of the transfer leaf for a purpose later described.

A preferred embodiment of the invention is disclosed in Figs. 2 and 3, showing an assembly of record and transfer leaves similar to that above described and corresponding parts are indicated by the same reference numerals with the addition of the index "*a*". In this embodiment the guiding and supporting tab 14*a* is, as before, shown as being integral with the overlying or original record leaf 10*a* but is positioned at one longitudinal edge of the assembly instead of at the forward end thereof, as in Fig. 1. Also, there is an additional record leaf 20 providing a duplicate copy, and an additional carbon transfer leaf 21 positioned to transfer inscriptions to the duplicate leaf 20. The duplicate leaf 20 is provided with a binding extension or tab 22 similar to the binding tab 16*a* of the transfer leaf 11*a*. Also, the transfer leaf 21 has a similar binding extension 23. As shown, the binding tabs or extensions 16*a*, 22 and 23 are all similarly formed as described above by backwardly folding or turning the edges of the respective leaves. The record leaves at the fold lines are perforated or weakened as indicated at 15*a* and 24 for the purpose of facilitating selective severance of the record leaves from the binding stub. Both transfer leaves 11*a* and 21 are unweakened in their attachment to their binding stubs or extensions so as to remain attached thereto, as when the record leaves are being severed. Each of the binding extensions 16*a*, 22 and 23 are pasted or otherwise attached to the binding tab 14*a* beyond the folds or severance lines as indicated at 25. A light line of adhesive for each of the attaching tabs is convenient for effecting this union as above stated.

The loose ledger leaf 18*a*, as above described, is received within the guiding loop or envelope provided by the tab 14*a* and supported thereby in correct manifolding position. It is provided with any desired ruling or blank form and may be adjusted vertically with reference to the assembly to bring different areas of its blank form into register with a given area of the blank forms 13*a* provided on the original and duplicate leaves 10*a* and 20. As in Fig. 1, it will be noted that the transfer leaf 11*a* is positioned at the lower, outside of the assembly, so as to transfer inscriptions to the ledger leaf.

Selective grip formations 26 are provided for gripping some of the leaves to the exclusion of the others. In the embodiment shown, the record leaves are extended at their longitudinal edges opposite the binding as indicated at 26, beyond the adjacent edges of the transfer leaves. In this manner, the leaves 10*a* and 20 can be gripped to the exclusion of the transfer leaves. If it is desired to grip the transfer leaves selectively instead of the record leaves, then their edges would be constructed to extend beyond the adjacent edges of the record leaves.

Referring to the preferred embodiment of the invention as illustrated in Figs. 4 and 5, the assembly of record and transfer leaves is generally similar to the foregoing embodiments and corresponding parts are designated by the same reference numerals with the addition of the index "*b*". In this case, however, the original or overlying attached record leaf of Figs. 1 and 2 is omitted, and substitution therefor may be made in making the inscriptions by a separate record leaf or record unit which can be placed in superposed manifolding relation with the assembly when the inscription is being made. The assembly when thus constituted, may be inserted as a unit in a manifolding machine, or the inscription could be manually entered.

As shown in this embodiment, the top or overlying outside leaf is the transfer leaf 27 shown as having transfer material only on its underside as indicated at 28. The duplicate record leaf 20*a* underlies the transfer leaf 27. Also, a transfer leaf 29 underlies the record leaf 20*a* while a record leaf 30 is positioned between the transfer leaf 29 and the lower outside transfer leaf 11*b*.

As shown, the guiding and supporting tab 14*b* is formed integrally with the record leaf 30 being separated therefrom by a weakened severance line 31 shown as coincident with the fold line as above described. The binding extension 16*b* of the transfer leaf 11*b* is pasted to the tab 14*b* along a line 25*b*. The binding extension 22*b* of

the duplicate record leaf 20a lies outside of the tab 14b as do the binding extensions 32 and 33 of the transfer leaves 27 and 29. These outside binding extensions are pasted to the outside of the tab 14b along a line 34.

A selective grip is provided by cutting off the corners of the transfer leaves as indicated at 35, thus providing the selective grip extensions 36 on the record leaves. It will be understood that this form of selective grip or the others above suggested, or some other well known selective arrangement, such as tabs either on the record or transfer leaves, or on both, extending beyond the adjacent leaf edges, may be utilized. Whatever form is employed, it will be observed that the record and transfer leaves have selectively overlying parts remote from the binding stub, thus forming a selective grip device whereby either the record or transfer leaves may be gripped to the exclusion of the others. It will also be noted that the severance lines for the leaves are selectively arranged with reference to the record and transfer leaves. In other words, selected ones only in the leaves are provided with the weakened severance lines near the binding while the remaining leaf or leaves is free from corresponding severance weakening. In the form as disclosed, the severance lines are selectively positioned only in the record leaves.

Although the embodiments herein disclosed show the binding stub backwardly turned as in the guiding and supporting tabs, it will, nevertheless, be understood that this binding stub may be positioned in direct alignment with the record and transfer leaves, that is, unfolded or straightened out, in cases where the ledger leaf or an additional manifolding unit is not to be inserted underneath the assembly when the inscriptions are being made. If an overlying record unit or an original record leaf is to be utilized as in the form of Figs. 4 and 5, such additional unit may be supported in its correct manifolding relation by any convenient or appropriate manner, as by the machine in which the assembly is used or by a tab similar to the tab 14 provided on the additional leaf or unit.

In each form of the invention above disclosed, it will be observed that the manifolding assembly, including the binding stub, is flexible throughout its extent whereby the complete assembly may be readily utilized in typewriting and manifolding machines of standard construction. Due to the pliable nature of the assembly, it can be readily entered into writing machines employing cylindrical platens, as it readily bends about the platen without wrinkling, warping or other distortions.

Since one or both of the outside leaves of the assembly is a transfer leaf, it will be noted that two or more of the units may be assembled with each other for transfer inscription, the supporting and guiding flaps functioning to hold the different units in correctly assembled relation. In the preferred form of Figs. 4 and 5, an additional overlying original record leaf may be utilized, whereupon the inscription is transferred by the transfer leaf 27 to the duplicate record leaf.

After the inscriptions have been entered in the manner above suggested, the separation of the inscribed record leaves from the assembly is a simple matter. By grasping the record leaves at the selective grip formation thereof and at the same time holding the guiding and supporting tab, it will be seen that the record leaves may readily be severed from the binding along the selective severance lines by which they are separated from their binding extensions. Since the transfer sheets are unweakened at their binding extensions, and are not gripped at their outer ends, they will remain attached to the stub. Severance of the record leaves and separation thereof from the assembly may be accomplished quickly at a single movement.

Since certain changes may be made in the above construction and different embodiments of the invention could be made without departing from the scope thereof, it is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative and not in a limiting sense.

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

1. A pliable manifolding assembly including, in combination, a pliable binding stub in which a record leaf is bound, said record leaf having a weakened severance line for detachment from the stub, a transfer leaf overlying said record leaf at the outside of the assembly for receiving an overlying record sheet and having its transfer surface in transfer contact with the record leaf so as to transfer inscriptions to the latter, said transfer leaf being bound in said stub and being unweakened corresponding to the weakening of the record leaf so as to effect selective detachment of the leaves from the stub, and a reversely folded supporting and guiding tab positioned at one edge of the assembly for supporting an additional record unit in manifolding relation with the leaves of the assembly.

2. A pliable manifolding assembly including, in combination, a pliable binding stub in which a record leaf is bound, said record leaf having a weakened severance line for detachment from the stub, a transfer leaf overlying said record leaf at the outside of the assembly for receiving an overlying record sheet and having its transfer surface in transfer contact with the record leaf so as to transfer inscriptions to the latter, said transfer leaf being bound in said stub and being unweakened corresponding to the weakening of the record leaf so as to effect selective detachment of the leaves from the stub, said record and transfer leaves having a selective grip formation remote from the stub for selectively gripping the record leaf to the exclusion of the transfer leaf for effecting the selective detachment of the record leaf from the stub, and a reversely folded supporting and guiding tab positioned at one edge of the assembly for supporting an additional record unit in manifolding relation with the leaves of the assembly.

3. A pliable manifolding assembly including, in combination, a pliable binding stub in which a record leaf is bound, said record leaf having a weakened severance line for detachment from the stub, a transfer leaf overlying said record leaf at the outside of the assembly for receiving an overlying record sheet and having its transfer surface in transfer contact with the record leaf so as to transfer inscriptions to the latter, said transfer leaf being bound in said stub and being unweakened corresponding to the weakening of the record leaf so as to effect selective detachment of the leaves from the stub, a reversely folded supporting and guiding tab underlying the assembly near one edge thereof for supporting an additional record unit in manifolding re-

lation with the leaves of the assembly, and reversely turned binding stubs on said record and transfer leaves attached to said supporting tab beyond the fold line thereof.

4. A pliable manifolding assembly including, in combination, a pliable binding stub in which a record leaf is bound, said record leaf having a weakened severance line for detachment from the stub, a transfer leaf overlying said record leaf at the outside of the assembly for receiving an overlying record sheet and having its transfer surface in transfer contact with the record leaf so as to transfer inscriptions to the latter, said transfer leaf being bound in said stub and being unweakened corresponding to the weakening of the record leaf so as to effect selective detachment of the leaves from the stub, a reversely folded supporting and guiding tab underlying the assembly near one edge thereof for supporting an additional record unit in manifolding relation with the leaves of the assembly, and reversely turned binding stubs on said record and transfer leaves attached to said supporting tab beyond the fold line thereof, said record and transfer leaves having a selective grip formation remote from the stub for selectively gripping the record leaf to the exclusion of the transfer leaf for effecting the selective detachment of the record leaf from the stub.

5. A pliable manifolding assembly including, in combination, a pliable binding stub in which a record leaf is bound, said record leaf having a weakened severance line for detachment from the stub, a transfer leaf overlying said record leaf at the outside of the assembly for receiving an overlying record sheet and having its transfer surface in transfer contact with the record leaf so as to transfer inscriptions to the latter, said transfer leaf being bound in said stub and being unweakened corresponding to the weakening of the record leaf so as to effect selective detachment of the leaves from the stub, a reversely folded supporting and guiding tab positioned at one edge of the assembly for supporting an additional record unit in manifolding relation with the leaves of the assembly, and another transfer leaf attached to said stub and positioned at the underside of the assembly and having its transfer surface outwardly faced for transfer inscription to said additional record unit which underlies the assembly.

6. A pliable manifolding assembly including, in combination, a pliable binding stub in which a record leaf is bound, said record leaf having a weakened severance line for detachment from the stub, a transfer leaf overlying said record leaf at the outside of the assembly for receiving an overlying record sheet and having its transfer surface in transfer contact with the record leaf so as to transfer inscriptions to the latter, said transfer leaf being bound in said stub and being unweakened corresponding to the weakening of the record leaf so as to effect selective detachment of the leaves from the stub, a reversely folded supporting and guiding tab underlying the assembly near one edge thereof for supporting an additional record unit in manifolding relation with the leaves of the assembly, reversely turned binding stubs on said record and transfer leaves attached to said supporting tab beyond the fold line thereof, and another transfer leaf attached to said stub and positioned at the underside of the assembly and having its transfer surface outwardly faced for transfer inscription to said additional record unit which underlies the assembly.

7. A pliable manifolding assembly including, in combination, a pliable binding stub, a plurality of record leaves attached to said stub, a plurality of transfer leaves attached to said stub and positioned in overlapping transfer relation with the record leaves, selected ones only of said record and transfer leaves having weakened severance lines between them and the binding stub while the remaining leaf or leaves is free from corresponding weakening for the purpose of effecting selective severance of the leaves from the stub, a reversely turned supporting and guiding tab embodying said stub and attached at one edge of the assembly for supporting an additional record unit in manifolding relation with the leaves of the assembly, and reversely folded attaching stubs on certain of said record and transfer leaves attached to the said supporting tab and having the said weakened severance lines thereof coincident with their fold lines, and said record and transfer leaves having a selective grip formation remote from said supporting tab for selectively gripping the leaves for selective severance thereof from the stub.

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