

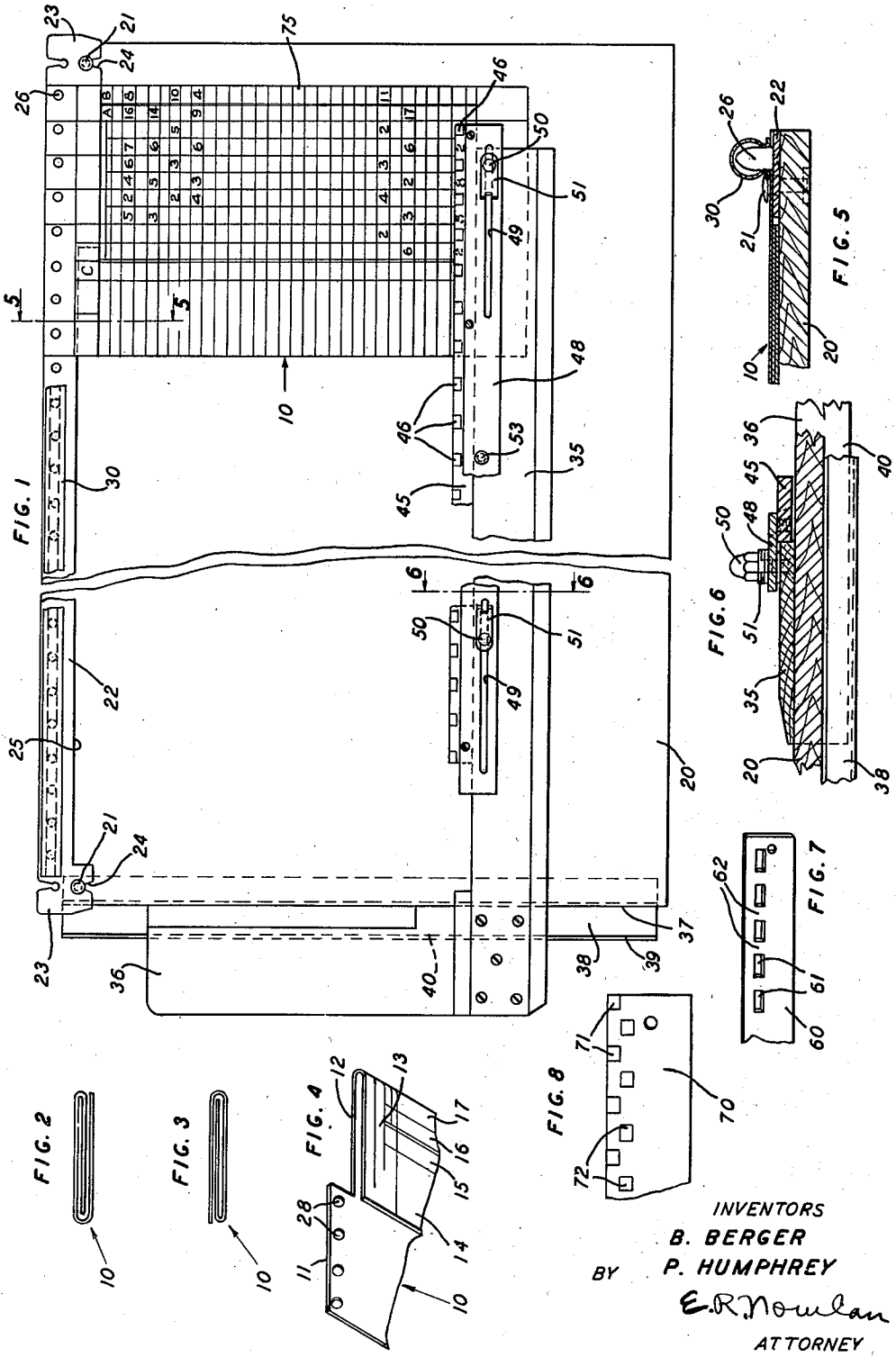
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RECORD SHEET HOLDER

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RECORD SHEET HOLDER

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This invention relates to a record sheet holder, and more particularly to a holder for facilitating computations from a multiplicity of record sheets.

In computing records from a multiplicity of like record sheets of the type having a plurality of vertical columns of items and for each column a plurality of columns of data recording spaces bearing different significant indicia, it has been found helpful to removably mount the record sheets so that like columns of items may be readily positioned for computing and to mask data in spaces other than those on which work is to be performed.

An object of the invention is to provide a record sheet holder for facilitating computations from a multiplicity of separate record sheets.

With this and other objects in view, the invention comprises a member for holding a plurality of record sheets in folded positions to present to view columns of data recording spaces and an adjustable element movable relative to the record sheets to mask data in certain of the spaces and to expose data in other of the spaces.

Other objects and advantages will be apparent from the following detailed description when taken in conjunction with the accompanying drawing, wherein:

Fig. 1 is a top plan view of a record sheet holder, portions thereof being broken away;

Figs. 2, 3 and 4 illustrate how the record sheets are folded and positioned with respect to the holder to present the various columns of items and their data recording columns;

Fig. 5 is an enlarged fragmentary sectional view taken along the line 5—5 of Fig. 1;

Fig. 6 is an enlarged fragmentary sectional view taken along the line 6—6 of Fig. 1, and

Figs. 7 and 8 are fragmentary detailed views of other forms of column indicating elements.

In the present embodiment of the invention the drawing illustrates record sheets having three columns of items, for example, items of stock in a distributing house or stockroom. The record sheets are indicated generally at 10 and are conditioned to be folded into three sections, 11, 12 and 13, each section having a column of items 14 and three data recording columns 15, 16 and 17. The columns 14 may contain, for example, an alphabetical list of various parts which are kept in stock and which are to be supplied upon requests or upon receipt of an order form which may be the record sheets 10 or other sheets similar thereto. The data recording columns 15 have spaces opposite each

item in which the total amount is recorded. The data recording columns 16 and 17 may have different significant indicia; for example, one column might include numbers representing new parts or articles from stock and the other column might represent reconditioned stock. It is often desirable to complete as much of the order as is possible with reconditioned stock and the remainder with new stock. It has, therefore, been found helpful in computing the total of each item of a multiplicity of record sheets and placing this total on a total record sheet to provide means for supporting such record sheets so that the data may be readily taken from each section thereof and placed on the total record sheet, the operator being further aided by means for making data in one of the columns 16 and 17 of each record sheet while taking data from the other column thereof.

This means consists of a table 20 in the form of a rectangular board formed of any suitable material and further provided with suitable supporting means (not shown) to locate the table at any desired angular position to suit the operator. Adjacent the upper corner of the table pins 21 are disposed, these pins being provided with head portions for holding a peg strip 22 against accidental displacement when removably disposed thereon. It will be noted that the peg strip extends the full width of the table 20, the end portions 23 thereof having notches 24 for association with the pins 21. Between the end portions 23 the peg strip 22 is reduced in width, as at 25, providing space for the folding of the sections 12 and 13 beneath the section 11 and making possible the unfolding of these sections to the positions shown in Fig. 4 without removing the record sheets from the peg strip. A multiplicity of pegs 26 is mounted upon the peg strip 22 at equally spaced positions, these positions being identical with the spacing of apertures 28 in an extended portion of the section 11 of the record sheets. The apertures 28 are of sufficient size to receive the pegs 26 so that the record sheets may be secured to the peg strip 22 as illustrated in Fig. 1. A retaining clip 30 of the cross sectional contour illustrated in Fig. 5 is conditioned to be disposed over the pegs 26 to hold the record sheets thereon. The clip 30 is formed of suitable material, such as resilient sheet metal, somewhat circular in cross section, with the edges bent outwardly in circular formation so that the clip may be readily disposed on the pegs, yet will provide sufficient

spring force to form a gripping engagement between the clip and the pegs.

A horizontal line guide 35 is shown disposed upon the table 20 with a guiding arm 36 fixed thereto and positioned to slide along an adjacent edge 37 of the table. An angular guide 38 is fixed to the table, providing a longitudinal groove between the edge 37 of the table and an outer wall 39 of the guide for the movement of a projection 40 of the arm 36, thus eliminating the possibility of longitudinal movement of the line guide 35.

In the embodiment shown in Figs. 1 and 6 a column indicating element 45 is formed of a transparent material and has spaced opaque portions 46 with transparent portions positioned therebetween. The opaque portions 46 are positioned so as to mask data in alternate columns of the record sheets disposed on the peg strip 22. These opaque portions may be formed in any desired manner, such as by coating the under surface of the element 45 with suitable opaque materials, by inserting opaque blocks or by forming recesses in either the upper or lower surfaces of the element 45 and filling these recesses with suitable opaque materials.

The element 45 is supported by a strip 48 resting upon the line guide 35 and having elongate apertures 49 therein. The strip 48 is adjustable longitudinally to move the element 45 relative to the record sheets and is secured to the guide 35 against other than longitudinal movement by bolts 50, the latter having spring members 51 resting upon the strip 48 and providing sufficient frictional contact therewith to hold the strip with the element 45 in any desired adjusted position. A vertical handle 53 mounted upon the strip 48 provides means for manual adjustment of the element 45.

In Figs. 7 and 8 two other species of column indicating elements are illustrated. In Fig. 7 a column indicating element 60, which may be secured to the strip 48 and function the same as the element 45, is formed of an opaque material such as sheet metal. Aligned apertures 61 are formed in the element 60 which serve the same purpose as the transparent spaces between the opaque portions 46 of the element 45, thus making it possible to expose data in desired spaces while opaque portions 62 between the apertures mask data in other spaces on the record sheets.

In Fig. 8 an element 70 formed of transparent material is identical in construction to the element 45 with the exception that the element 70 is of greater width, providing an additional line of spaced opaque portions 71 disposed in staggered relation with a line of spaced opaque portions 72 similar to the opaque portions 46 of the element 45. The purpose of the additional line of opaque portions is to relieve the operator of the necessity of certain adjustments and enable the operator to take data from staggered spaces. For example, with this element data may be taken from certain spaces disposed diagonally across the record sheets.

Let it be assumed that the peg strip 22 is to be filled with record sheets. The first record sheet placed thereon at the extreme right is a total record sheet 75, namely a blank sheet similar to the other record sheets and upon which the totals of all of the items of the record sheets, to be disposed upon the peg strip therewith, are to be placed with respect to their certain items. The peg strip is then filled with the record sheets 10 folded, as illustrated in Fig. 3, with the pro-

jecting portion of section 11 on the bottom, that is, adjacent the table 20. The record sheets are overlapped in somewhat stacked formation, so that only data recording columns 16 and 17 are apparent excepting the last record sheet (at the left), wherein the column of items in sections 13 together with the data recording columns 15, 16 and 17 are apparent. Due to the fact that the items in each hidden column of items, adjacent the exposed columns 16 and 17, are identical to those of the exposed record sheet, the record sheets may be so overlapped as to increase the number of record sheets which may be computed at one time.

The operator may at this time adjust the column indicating element 45 to position the opaque portions 46 thereof over columns 16 of the top row of figures or data after the items. When this has been done only data in the spaces in the column 17 of that row are exposed. The operator then adds all of these numbers, placing the total in the corresponding column on the total sheet 75. The operator may leave the element 45 in this adjusted position and by moving the element with the line guide downwardly the process may be repeated, totalling the data in the respective aligned spaces of the columns 17 and recording the total of such data in their respective spaces in the total sheet until all of the items in the columns 17 of all of the record sheets have had their respective totals placed on the total sheet. The operator then adjusts the element 45 to move the opaque portions 46 to mask data in columns 17. With the element 45 so adjusted the operator may move the element by moving the line guide to take the data line by line from the spaces in columns 16 of all the record sheets and place the totals in their respective spaces on the total sheet. At each line, while the operator is taking data from the spaces in column 16, the data in the aligned spaces in the columns 17 is masked, eliminating the possibility of confusion and error in the computations.

The description of the steps taken in computing the records of the record sheets was begun with sections 12 thereof although it is more convenient for the operator to begin with sections 11. In other words, after the record sheets have been mounted on the peg strip 22 and the clip 30 disposed over the pegs to secure the record sheets against displacement this assembly is turned completely over and the peg strip is secured to the table through the aid of the pins 21 to position sections 11 of the record sheets for computing. These sections are computed in the same manner as previously described for sections 12; that is, the operator adjusts the element 45 to cause the opaque portions 46 to mask the data in either the column 16 or 17, computing the data in the aligned spaces of the exposed columns, after which the element is adjusted to expose the previously masked columns so that the data in the successive steps may be taken therefrom and placed on the total sheet.

The next step in the procedure is to reverse the record sheets, placing them with the peg strip in their original positions to expose sections 12. The procedure regarding the computing of the data in sections 12 has previously been described. There remains, however, the computing of the data in sections 13, these sections having been hidden between the folds of sections 11 and 12. The operator may now lower the line guide to position the element 45 free of the record sheets,

after which the sections 13 may be unfolded and exposed to view as illustrated in Fig. 4. The operator may now place the line guide upon the record sheets and adjust the element 45 to position the opaque portions 46 over the spaces in column 16 or 17, removing the data from the spaces in the exposed columns, after which the element 45 may again be adjusted to expose the data in the previously masked columns, placing the data on the total sheet 75.

Another method of taking the data from columns 16 and 17 is to complete one line before going to the next, that is, take the data from column 16 in the first line, adjust the element to expose data in column 17, and after the data is taken therefrom, lower the element to the next line.

The peg strip is capable of removably holding a plurality of record sheets, each having a column of items; as a matter of fact, in each record sheet there are three columns of items and a plurality of columns of data receiving spaces for each section. The elements 45, 60 and 70 each constitute means to mask data in certain of the spaces and expose data in other of the spaces. Each element has opaque portions, that is, non-transparent portions to mask the data in other than the columns or spaces it is desired to expose.

The embodiments of the invention herein disclosed are illustrative only and may be widely modified and departed from in many ways without departing from the spirit and scope of the invention as pointed out in the appended claims.

What is claimed is:

1. A record sheet holder comprising holding means for a plurality of record sheets each having a column of indicia constituting items and appropriately designated spaces to receive indicia in alignment with the items and arranged in columns, the holding means including cooperating members to hold the record sheets in overlapped positions with the respective spaces thereof aligned, and an element movable over the record sheets and having alternately spaced opaque and transparent portions to expose indicia in like spaces of each record sheet and mask indicia in the other spaces aligned with the exposed spaces.

2. A record sheet holder comprising holding means for a plurality of record sheets each having a column of indicia constituting items and appropriately designated spaces to receive indicia in alignment with the items and arranged in columns, the holding means including cooperating members to hold the record sheets in overlapped positions with the respective spaces thereof aligned, and a transparent element, with spaced opaque portions, movable over the record sheets to expose indicia in like spaces of each record sheet and mask indicia in the other spaces aligned with the exposed spaces.

3. A record sheet holder comprising holding means for a plurality of record sheets each having a column of indicia constituting items and appropriately designated spaces to receive indicia in alignment with the items and arranged in columns, the holding means including cooperating members to hold the record sheets in overlapped positions with the respective spaces thereof aligned, and an apertured element movable over the record sheets to expose indicia in like spaces of each record sheet and mask indicia in the other spaces aligned with the exposed spaces.

4. A record sheet holder comprising holding means for a plurality of record sheets each hav-

ing a column of indicia constituting items and appropriately designated spaces to receive indicia in alignment with the items and arranged in columns, the holding means including cooperating members to hold the record sheets in overlapped positions with the respective spaces thereof aligned, and an element movable over the record sheets and having rows of transparent and opaque portions to expose indicia in different spaces of each record sheet and mask indicia in the other spaces.

5. A record sheet holder comprising a holding member for a plurality of record sheets each folded into similar sections having indicia constituting items and appropriately designated spaces to receive indicia in alignment with the items and arranged in columns adjacent thereto, means to support the holding member to present certain of the columns to view, the holding member having a reduced portion to make possible unfolding of the sections to present other columns to view, and an element movable over the record sheets and formed to expose indicia in like spaces of each record sheet and mask indicia in the other spaces aligned with the exposed spaces.

6. A record sheet holder comprising a holding member for a plurality of record sheets each folded into similar sections having indicia constituting items and appropriately designated spaces to receive indicia in alignment with the items and arranged in columns adjacent thereto, means to support the holding member to present certain of the columns to view, the holding member having a reduced portion to make possible unfolding of the sections to present other columns to view, an element having alternately spaced opaque and transparent portions to expose indicia in like columns of spaces and mask indicia in the other columns of spaces, and means to control movement of the element to position the opaque portions to mask indicia in the previously exposed columns and expose indicia in the previously masked columns.

7. A record sheet holder comprising holding means for a plurality of record sheets each having a column of indicia constituting items and appropriately designated spaces to receive indicia in alignment with the items and arranged in columns, the holding means including cooperating members to hold the record sheets in aligned overlapped positions with the columns of spaces closely positioned, an element movable over the record sheets and having alternately spaced opaque and transparent portions to expose indicia in like spaces of each record sheet and mask indicia in the other spaces aligned with the exposed spaces, and means to guide the element in movement over the record sheets.

8. A record sheet holder comprising holding means for a plurality of record sheets each having a column of indicia constituting items and differently marked columns of spaces to receive indicia in alignment with the items, the holding means including cooperating members to hold the record sheets in aligned overlapped positions with the columns of spaces closely positioned, and an element movable over the record sheets and having alternately spaced opaque and transparent portions to expose indicia in like spaces of each record sheet and mask indicia in the other spaces aligned with the exposed spaces.

9. A record sheet holder comprising holding means for a plurality of record sheets each having a column of indicia constituting items and

differently marked columns of spaces to receive indicia in alignment with the items; the holding means including cooperating members to hold the record sheets in aligned overlapped positions with the columns of spaces closely positioned, an element formed to expose indicia in selected like spaces of each record sheet and mask data in

the other spaces, means to guide the element for movement longitudinally of the columns, and means to support the element for movement thereof laterally of the columns.

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