Sept. 1, 1925. 1,551,930

M. L. BUCHHEIM

POCKET ACCOUNTING DEVICE

Filed Aug. 3, 1921

Fig. 1.

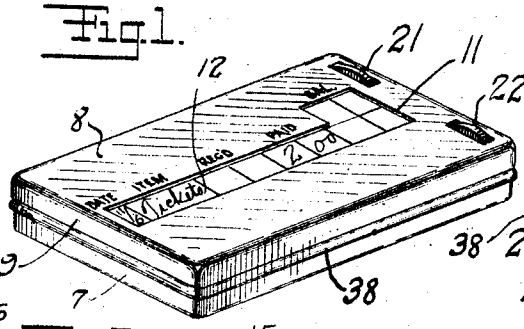


Fig. 4.

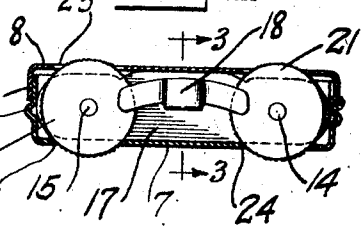


Fig. 5.

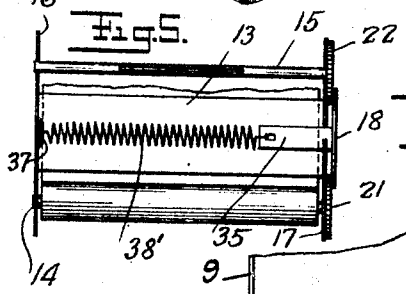


Fig. 2.

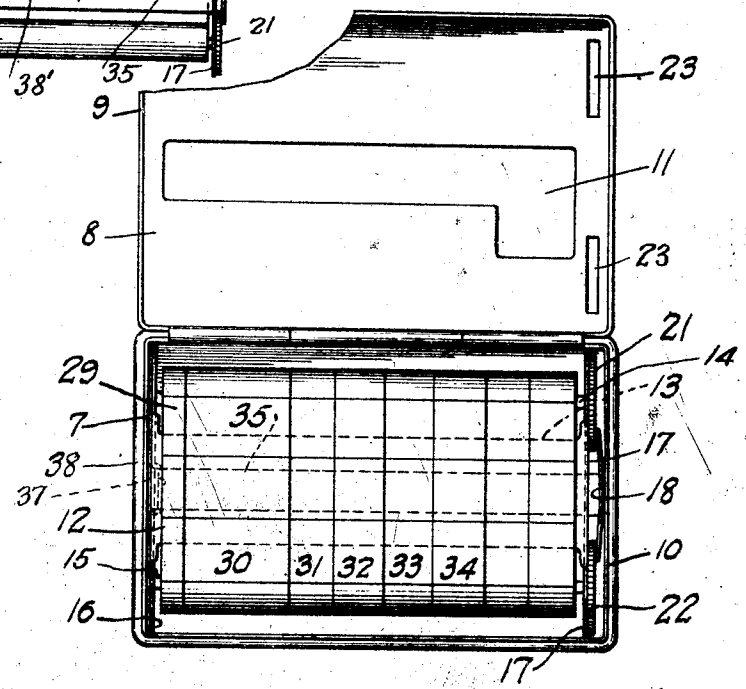
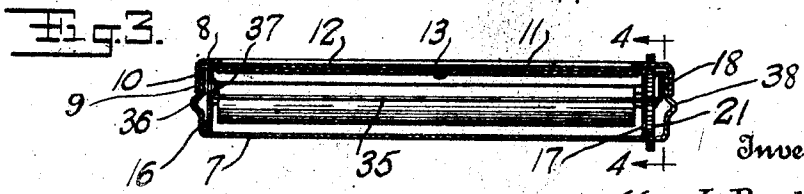


Fig. 3.



Inventor

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By his Attorney

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Patented Sept. 1, 1925.

1,551,930

UNITED STATES PATENT OFFICE.

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POCKET ACCOUNTING DEVICE.

Application filed August 3, 1921. Serial No. 489,535.

To all whom it may concern:

Be it known that I, MAX L. BUCHHEIM, a citizen of the United States of America, and a resident of Brooklyn, Kings County, and State of New York, have invented certain new and useful Improvements in Pocket Accounting Devices, of which the following is a specification.

The objects of my present invention are to provide a simple, compact and convenient form of accounting device or memoranda carrier which can be readily carried about in the pocket of the user, in which the entries can be easily made at any time and which will carry a continuous record for any desired length of time, a whole month for instance.

Other objects are to provide a device of the character above referred to, which will permit of the ready removal of the old record and the insertion of a new record sheet, which will permit of turning the record backward or forward for the purpose of making comparisons, or the like, and which, furthermore, will be neat and attractive so as to constitute a truly desirable device for carrying in the pocket.

The invention involves a number of different novel features of construction, combinations and arrangements of parts, as will appear from the following specification, reference being had to the accompanying drawing wherein the invention is disclosed embodied in practical and preferred forms.

In the drawings referred to, Figure 1 is a perspective view of the complete device.

Figure 2 is an enlarged plan view of the device as it appears with the cover open.

Figures 3 and 4 are sectional views as taken on substantially the planes of lines 3—3 and 4—4 of Figures 4 and 3 respectively.

Figure 5 is a part sectional detached rear view of the spool-carrying frame.

The device illustrated embodies, first, a casing of suitable material such as light sheet metal and consisting in the present illustration of a box-body 7 and a cover 8 which, in this instance, is held in place by means of a dependent flange portion 9 which is sprung over the outwardly flaring upper edge portion 10 of the box-body. This cover is provided with a longitudinal slot 11 therein through which the entries are made on a web or sheet 12 which is supported at the slot or window 11 by a backing or platen 13.

The record sheet is wound at its opposite ends on the spools 14 and 15 journaled in the end plates 16 and 17 of a frame member which consists of said end plates joined by the platen 13 which thus constitutes a bridge piece between such end plates.

The spools are held under tension so as to prevent their accidental turning and so as to hold them in the position to which they are adjusted by means of a spring plate 18 engaged over the heads 21 and 22 of the two spools.

The spools are rotated by means of these heads or thumb-turns 21 and 22 which are shown in the form of milled discs fastened on the ends of the spools at the outer side of the end plate 17. These thumb-turns are, in my invention, housed within the casing for the greater portion of their extent with the exception of narrow rim portions thereof which are allowed to project through transverse slots 23 and 24 provided in the cover and in the back of the casing. This construction protects the spools against accidental rotation and provides just sufficient gripping portions at the back and front of the casing to enable the intentional turning of the spools by the operator.

The frame carrying the web-supporting spools is constructed as particularly indicated in Figures 2 and 3, to fit closely within the casing so as to be held in position by the mere act of placing the same in the casing and securing the cover thereto. This removable "unit" construction enables ready removal and replacement of the record sheets by simply lifting out the frame and drawing the web off the spools, the new web being inserted by engaging the end

thereof with one spool and winding the same thereon and attaching the opposite end to the other spool.

For the keeping of memoranda, such as a cash account, the web is ruled longitudinally to provide a column 29 for the entry of the date, column 30 for the entry of the item, columns 31, 32 for the entry of items of income and columns 33, 34 for items of expenditure.

In the present form of the invention, the cover is hinged to the box-body and the closing movement is accurately determined by means of an outstanding bead 38 which when engaged by the flange of the cover operates as a stop.

In the first example of the invention, the spring 18 is in the form of an angularly turned projection on the end of a supporting shank or strip 35 which is passed through the end member 17 of the frame and has a hooked end 36 engaged with a loop 37 on the other end member 16 of the frame. This construction facilitates easy assemblage and avoids the use of solder for securing the spring in place.

Another method of securing the spool-holding spring in place is indicated in Figure 5 and consists in connecting a tension spring 38' between the head or shank 35 of the spring and the loop 37 on the end of the frame. This causes the plate or spring 18 to exert an even holding tension on the spool heads and at the same time provides a simple and very practical means of holding the spools properly assembled in the frame, because with this construction it is possible to simply slip the spools 14 and 15 into the place in the bearing openings provided therefor in the plates 17 and 16, and then after engaging the holding plate 18 over the spool heads, to connect the same yieldingly with the frame by means of the tension spring, as shown. This ease of assemblage is an advantage from a manufacturing standpoint and a further advantage is that the user can readily take the device apart for renewal or repair of any of the parts.

The device can be made in exceedingly compact form and yet carry a web sufficiently long for an account for a month or more. Ordinarily, the device will be carried in the pocket of the user, the vest pocket for instance, and as expenditures are made or income is received, the same will be entered with the date and suitable memoranda to identify the same in the columns provided therefor. At the end of the month, the cover may be opened and the web unit be removed, the used sheet being taken out and balanced and a fresh sheet being inserted in its place. If desired, the web may be provided with an additional column or columns for balancing the account from day to day or directly when the items are entered.

The device, it will be seen, is a practical and desirable one to aid in the keeping of a running account, for instance, and is in such form that it can be conveniently carried about and thus be at hand at all times for the making of entries therein.

The construction disclosed has the further advantage that the spools are journaled entirely within the casing and are not exposed except for the small portions of the thumb-turns which serve as the operating pieces.

It is possible that changes and modifications in structure may be made without departure from the spirit and scope of the invention as disclosed and it is intended that such modifications shall be covered by the accompanying claims, and in this connection it is pointed out that the terms employed herein are used in a descriptive rather than in a limiting sense, except, however, for such limitations as may be imposed by the prior art.

What I claim is:

1. In a device of the character set forth, a casing, a frame removably engaged in said casing, spools journaled in said frame, heads on said spools and a spring for frictionally holding said spools having a supporting shank extended through the frame and provided with an end portion connected with a loop on the frame.

2. In a device of the character set forth, a casing, a frame removably engaged therein and comprising end plates connected by a bridge, spools journaled in the end plates and provided with heads, a spring engaged with said heads, said spring having a supporting shank extending through one of the end plates of the frame and terminating in an angularly turned end, said other end plate of the frame having a loop connected with said end.

3. In a device of the character set forth, a casing, a frame removably engaged in said casing and having alined bearings, spools each having an operating head at one end only so as to be engageable endwise in said alined bearings and the operating heads limiting their endwise engagement in the frame and spring tension means engaged over said operating heads to yieldingly retain the spools thus engaged in the frame and also to frictionally hold the spools in the positions to which they may be turned.

4. The structure of claim 3 in which the spring tension means includes a plate guided in one end of the frame and connected by a tension spring with the opposite end of the frame.

5. In a device of the character set forth, a casing, a frame removably engaged in said casing and comprising a platen and end plates at opposite ends of the same provided with alined bearings, web-supporting

spools insertible endwise into said bearings and each having an operating head at one end limiting endwise insertion of the spools and a spring tensioned securing plate guided in one of the end plates of the frame and frictionally engaging over the operating heads of the spools to yieldingly retain the spools in their bearings and to frictionally hold the spools in the position to which they may be turned, the securing plate being tensioned by a tension spring connected between said plate and the opposite end plate of the frame.

In witness whereof, I have hereunto set my hand this 7th day of July, 1921.

MAX L. BUCHHEIM.