April 8, 1930. A. HINKEL 1,753,786

INDICATING DEVICE FOR DISPLAYING VARIABLE INFORMATION

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Fig: 1.

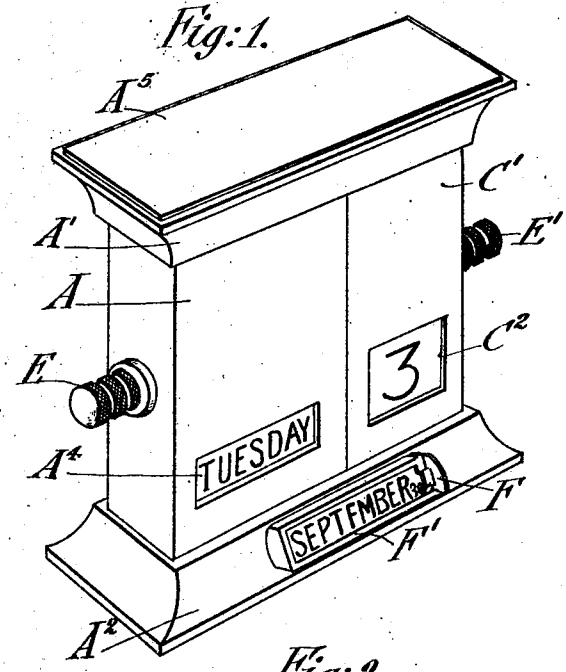
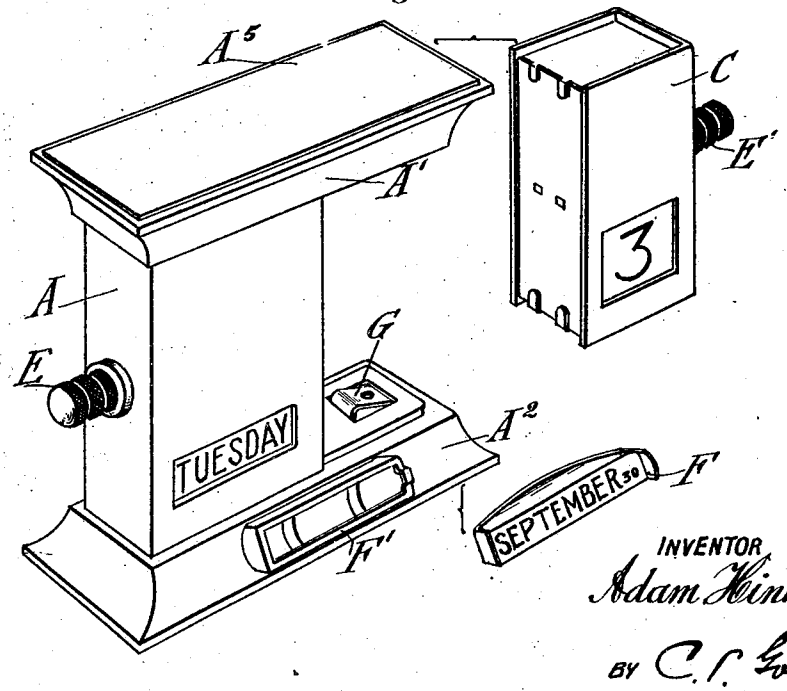


Fig: 2.



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Fig:3.

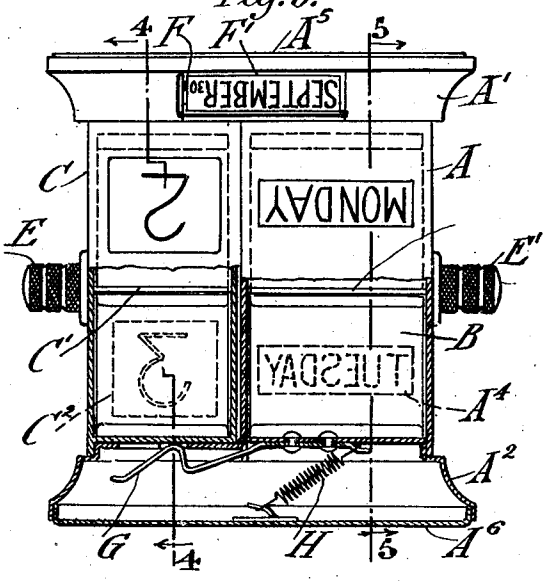


Fig:4.

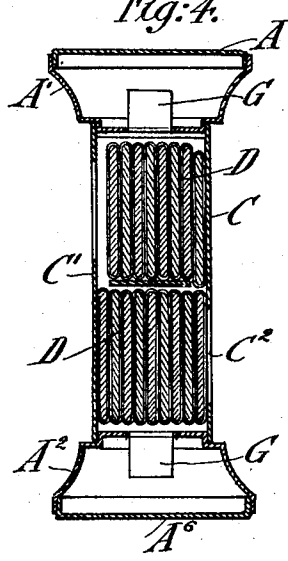
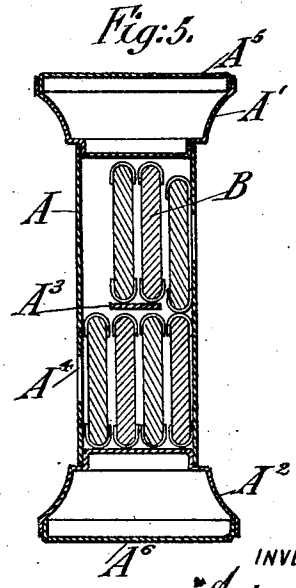


Fig:5.



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UNITED STATES PATENT OFFICE

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INDICATING DEVICE FOR DISPLAYING VARIABLE INFORMATION

Application filed January 3, 1930, Serial No. 418,194, and in Germany January 26, 1929.

This invention relates to date indicators and other indicating devices for displaying variable information, and more particularly to such devices of the kind in which a number of indicating cards, plates or the like are contained in a rotatable casing divided by a partition into two compartments each having a window or aperture, the arrangement being such that each time the casing is turned end for end one card passes from one compartment to the other so as to expose the surface of a different card at one or other of the windows.

An indicating device according to this invention is of the kind above mentioned but it is provided with at least two sets of indicating cards, plates or the like which normally move together when the device is turned so as to give simultaneously changing indications of, say, the day of the week and the day of the month. One set of the cards is in a casing separable from the rest of the device so that it can be removed and turned to effect adjustment in the indications given by the two sets. This adjustment is necessary, in the case of a date indicator, on account of the various months having different numbers of day.

One construction of indicating device according to this invention is illustrated in the accompanying drawings, a date indicator or calendar being chosen by way of example.

In these drawings:—

Figure 1 is a perspective view of the complete device;

Fig. 2 is a similar view with the parts separated;

Fig. 3 is a rear elevation partly in section; and

Figs. 4 and 5 are vertical transverse sections on the lines 4—4 and 5—5 respectively of Fig. 3.

Like letters indicate like parts throughout the drawings.

With reference to these figures, the main casing of the device comprises a box A with top and bottom portions A^1 and A^2. The box A is partially divided by a partition A^3 (Figs. 3 and 5) into two compartments one above the other and containing a set of cards B bearing the names of the days of the week.

Sliding between the top and bottom parts A^1 and A^2 which project to the right-hand of the box A (Fig. 2) is a box or casing C also divided by a partition C^1 (Figs. 3 and 4) into two compartments which contain cards D bearing the numbers of the days of the month.

Apertures or windows A^4 and C^2 are provided through which the indications are displayed. These apertures are, as shown in Fig. 1, at the lower part of the front of the two boxes or casings and similar apertures are provided at the back (see Fig. 3) in such a position that when the device is inverted they occupy similar positions in the lower portion of what is then the front.

In normal use the whole device is turned each day end for end by means of the knurled knobs E, E^1, and this causes the cards in both sets to change automatically to display the next day of the week and month. The arrangement of the cards in their compartments in order that these changes may be effected need not be described in detail as it is the same as that referred to in the specification of British Letters Patent No. 241,137 for an indicator with a single set of cards.

At the back and front of the device are carriers F having sets of cards bearing the names of the months. These carriers slide in and out of frames F^1 so that the cards may be easily changed when required.

The separable box or casing C is frictionally retained in position by springs at the top and bottom. One of these is shown at G in Fig. 3 and there is a similar spring at the other end of the casing. Portions of these two springs are shown in Fig. 4.

The plates or covers A^5, A^6 fit into the top and bottom portions A^1 and A^2 and are anchored by springs H (Fig. 3). This is not an essential detail but it is convenient to have the plates readily removable and exchangeable as they may bear advertising matter.

Obviously the indicating device may be made so that more than two sets of indications may be changed automatically by the turning of the device. For instance there might be

a third separable box or casing side by side with the boxes A and C, and that third box might contain cards bearing the names of the months instead of those names being on cards in the carrier F as illustrated.

While I have illustrated and described my invention with some degree of particularity, I realize that in practice various alterations may be made therein. I, therefore, reserve the right and privilege of changing the form of the details of construction or otherwise altering the arrangement of the correlated parts without departing from the spirit or scope of the invention or the scope of the appended claims.

I claim:

1. An indicating device of the kind described for displaying variable information, having at least two sets of indicating members which normally move together when the device is turned, said device comprising a main section and a section separable from the main section, one set of the indicating members being in the separable section to be turned therewith to effect adjustment of the indications given by the two sets of indicating members.

2. An indicating device of the kind described for displaying variable information, having at least two sets of indicating members which normally move together when the device is turned, said device comprising a main section and a section separable from the main section, one set of the indicating members being in the separable section to be turned therewith to effect adjustment of the indications given by the two sets of indicating members, said separable section being arranged to have sliding engagement with the main section.

3. An indicating device of the kind described for displaying variable information, having at least two sets of indicating members which normally move together when the device is turned, said device comprising a main section and a section separable from the main section, one set of the indicating members being in the separable section to be turned therewith to effect adjustment of the indications given by the two sets of indicating members, said main section and separable section being reversible as an entity structure, and projecting alined knobs on said sections by which to turn them.

4. In an indicating device of the kind described, the combination with a main casing section containing a set of indicating members bearing the names of the days of the week, of a second casing section containing another set of indicating members bearing the numbers of the days of the month, the indicating members of the two sets being normally changed simultaneously by reversing the device as a whole and the two casing sections being separable so that one may be rotated independently of the other for the purpose described.

5. In an indicating device of the kind described, the combination with a main casing section containing a set of indicating members, of a second casing section containing a set of cooperating indicating members, said second section being in the form of an insert section arranged to slide into the main section, means for detachably securing the second section in the main section, said sections when secured together being adapted to be moved together, the indicating members of the two sets being normally changed simultaneously by reversing the sections as a whole, and the second section when detached being reversible independently of the main section to effect adjustment in the relation of the indications given by the two sets of indicating members.

6. An indicating device of the kind described for displaying variable information, having at least two sets of indicating members which normally move together when the device is turned, said device comprising a main section and a section separable from the main section, one set of the indicating members being in the separable section to be turned therewith to effect adjustment of the indications given by the two sets of indicating members, and detachable top and bottom plates associated with the main section.

In testimony that I claim the foregoing as my invention, I have signed my name hereto.

ADAM HINKEL.