Dec. 3, 1940. F. J. McGLOIN 2,223,917

MEMORANDA TABLET OR PAD, DIARY, AND THE LIKE

Filed Feb. 10, 1939 2 Sheets-Sheet 1

FIG. 1.

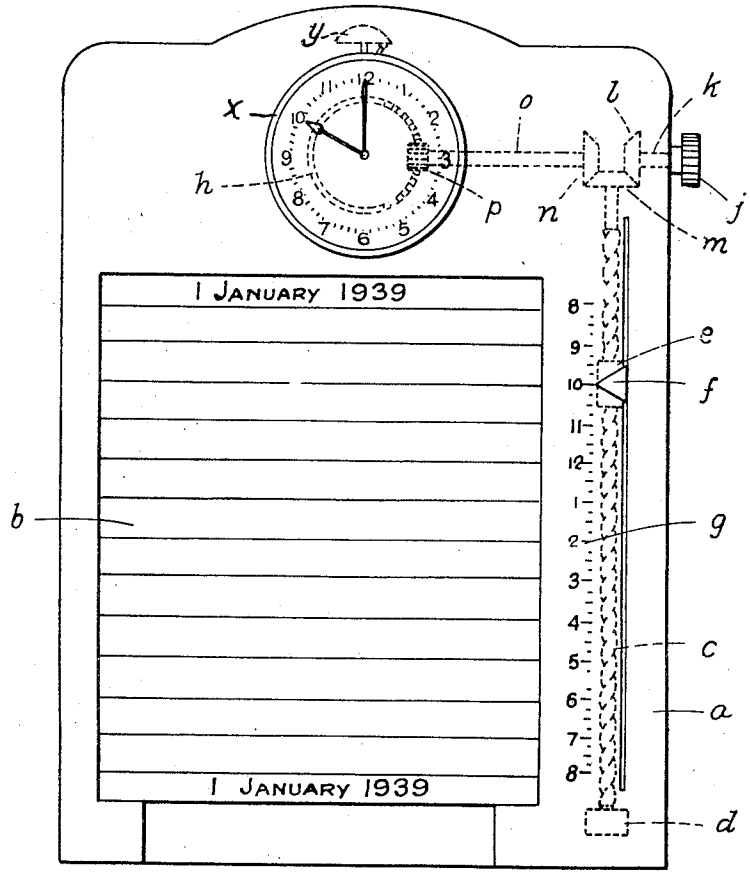
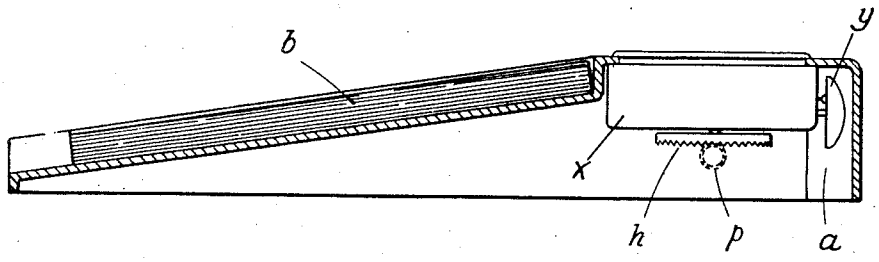


FIG. 2.



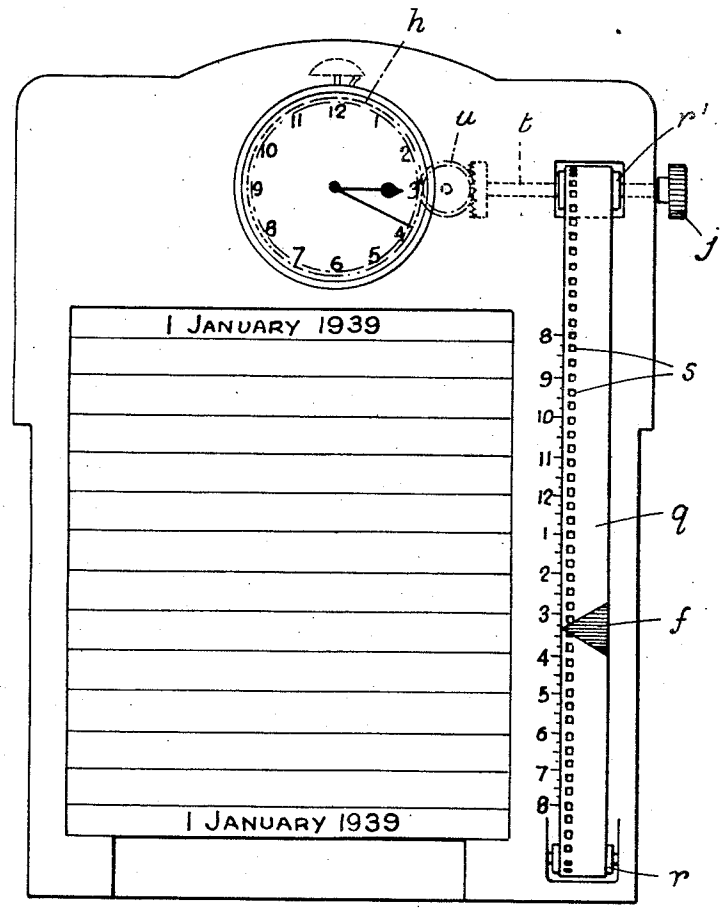
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MEMORANDA TABLET OR PAD, DIARY, AND THE LIKE

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FIG. 3



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MEMORANDA TABLET OR PAD, DIARY, AND THE LIKE

Francis Joseph McGloin, London, England

Application February 10, 1939, Serial No. 255,737
In Great Britain August 12, 1938

9 Claims. (Cl. 161—1)

This invention relates to memoranda tablets or pads, diaries and the like, and has for its object to provide an article of this kind with means whereby notice will be given automatically to the user as the time of an appointment entered on the tablet or the like is reached or approaches.

In a prior application filed Serial No. 225,451, filed Aug. 17, 1938, in the name of the present applicant a memoranda tablet, pad, diary or the like is described in which there is incorporated therewith a time indicator in the form of a strip which carries an indicating element which is mounted on or in proximity to the pad or the like and is driven by an alarm clock.

According to the present invention instead of the indicating element being driven by the clock, it is arranged to be moved manually and operatively connected with the alarm setting mechanism of the clock in such manner that manual movement of the indicating element results in automatic setting of the alarm mechanism for release at a time corresponding to that indicated on the tablet or the like.

According to one embodiment of the invention a holder of wood, metal, synthetic resin or any other material, accommodates a memoranda pad, each sheet of which represents a day and is subdivided horizontally into twelve spaces representing hours. At one side of the holder there is mounted a spindle having a spiral groove cut or formed therein, the spindle being rotatably mounted in suitable bearings. A threaded sleeve carrying a pointer is fitted on the spindle, the sleeve being movable axially of the spindle but not being rotatable.

The spiral is arranged to be driven by a suitable device which is also connected to drive the alarm setting mechanism in such manner that movement of the device will adjust the indicator and the alarm mechanism simultaneously and to corresponding degrees.

The means for ensuring the simultaneous drive of the two members, namely, the indicating element and the alarm setting mechanism, may conveniently comprise a toothed disc or bevel, with which meshes a cog wheel carried by the end of the spiral rod and a cog wheel carried by a shaft whose opposite end is arranged to drive gearing connected with the time setting mechanism of the alarm clock. The disc is arranged to be rotated by a cog which meshes with the disc teeth and which is carried by a spindle having a winding knob for manual manipulation. The alarm clock is preferably arranged at the head of the tablet or the like, and its face may project through an aperture in the holder or may be mounted at the back of the holder.

The spindle carrying the indicating element may have a coarse pitch spiral thread, and if desired the winding device may be dispensed with and the spindle rotated to drive the disc by moving the non-rotatable sleeve up and down the spindle.

In an alternative construction, the threaded spindle is replaced by an endless band which is carried by rollers geared to mechanism such as the disc previously referred to for the purpose of adjusting the alarm mechanism of the clock.

One form of construction of the invention is illustrated in the annexed drawings, in which—

Fig. 1 is a front elevation;

Fig. 2 is a sectional side elevation, and

Fig. 3 illustrates a modified form of construction.

Referring first to Figs. 1 and 2, *a* represents a holder of mahogany or other suitable material and containing a plurality of memorandum sheets *b* divided by horizontal rulings into time units.

At one side of this casing *a* is a vertical spirally threaded spindle *c* mounted at its lower end in a bearing *d*. An internally threaded sleeve *e* is attached in an axially movable, but non-rotatable, manner to this spindle, and a pointer *f* is secured to the sleeve. A time scale *g* is arranged parallel to, and in proximity to, the spindle *c*, the arrangement being such that the pointer *g* can be set at any desired place on the time scale by movement of the spindle *c*. Means are provided for simultaneously driving the latter and also the setting wheel *h* of the alarm mechanism of a clock *x* mounted at the upper part of the tablet. This clock includes the alarm bell *y*. These means consist of a winding knob *j* arranged externally of the casing *a* at the side of the latter, and having a short spindle *k* connected to a bevel wheel *l*, which is in turn connected to a second bevel wheel *m* by which the threaded spindle *c* is driven. The wheel *m* is also connected to a further bevel wheel *n* which is in turn connected to a spindle *o* which carries at its other end a toothed wheel *p* which meshes with the teeth of the alarm-setting wheel *h*.

In the modified form of construction shown in Fig. 3, the spindle *c* is replaced by an endless band *q* on which the indicator *f* is mounted. This band *q* passes over two rollers *r* and *r'*, of which the upper one *r'* is provided with teeth adapted to engage with perforations *s* in the band in order to drive the latter. The roller *r'*

is mounted on a spindle *t* provided, as in the previous form of construction, with a winding knob *j* arranged externally of the casing and with a gear which meshes with a gear wheel *u* that engages with the setting wheel *h* of the alarm mechanism.

If desired, the knob *j* may be omitted and the device operated by exerting a pull on the band *q*.

Having thus described the nature of the said invention and the best means I know of carrying the same into practical effect, I claim:

1. A memorandum appliance comprising a support, a chart carried thereby on which stated events are to be arranged in chronological order, an audible alarm, a clock mechanism which includes means for sounding the alarm at a settable time, and a visual pointer which is manually movable relatively of the support to a fixed position along the chart, at which one of the events will be designated, a connection between the pointer and the clock mechanism for setting the alarm to sound automatically at the time at which the particular event designated by the pointer is to occur, said connection between the pointer and the alarm device of the clock comprising a strip carrying the pointer, and means for operating the strip, substantially as described.

2. A memorandum appliance comprising a support, a chart carried thereby on which stated events are to be arranged in chronological order, an audible alarm, a clock mechanism which includes means for sounding the alarm at a settable time, and a visual pointer which is manually movable relatively of the support to a fixed position along the chart, at which one of the events will be designated, a connection between the pointer and the clock mechanism for setting the alarm to sound automatically at the time at which the particular event designated by the pointer is to occur, said connection between the pointer and the alarm device for the clock comprising a threaded spindle, a second spindle between the first mentioned spindle and the said alarm device, and gear wheels connecting the first and second mentioned spindles, substantially as described.

3. A memorandum appliance comprising a support, a chart carried thereby on which stated events are to be arranged in chronological order, an audible alarm, a clock mechanism which includes means for sounding the alarm at a settable time, and a visual pointer which is manually movable relatively of the support to a fixed position along the chart, at which one of the events will be designated, a connection between the pointer and the clock mechanism for setting the alarm to sound automatically at the time at which the particular event designated by the pointer is to occur, said connection between the pointer and the alarm device of the clock mechanism comprising a threaded spindle for moving the pointer, a second spindle between the first mentioned spindle and the alarm device, gearing connecting the said spindles, and a single winding knob connected to the gearing for operating both spindles simultaneously, substantially as described.

4. A memorandum appliance comprising a support, a chart carried thereby on which stated events are to be arranged in chronological order, an audible alarm, a clock mechanism which includes means for sounding the alarm at a settable time, and a visual pointer which is manually movable relatively of the support to a fixed position along the chart, at which one of the events will be designated, a connection between the pointer and the clock mechanism for setting the alarm to sound automatically at the time at which the particular event designated by the pointer is to occur, said connection between the pointer and the alarm device of the clock comprising a threaded spindle, and a sleeve threaded internally and axially movable on the threaded spindle, and on which the pointer is mounted.

5. A memorandum appliance comprising a support, a chart carried thereby on which stated events are to be arranged in chronological order, an audible alarm, a clock mechanism which includes means for sounding the alarm at a settable time, and a visual pointer which is manually movable relatively of the support to a fixed position along the chart, at which one of the events will be designated, a connection between the pointer and the clock mechanism for setting the alarm to sound automatically at the time at which the particular event designated by the pointer is to occur, said connection between the pointer and the alarm device of the clock mechanism comprising a threaded spindle, and a sleeve mounted on the threaded spindle and internally threaded, to cooperate with the threaded spindle, and carrying the pointer, said sleeve being operable along the threaded spindle by applying manual force directly thereto, thereby rotating said spindle to set the alarm.

6. A memorandum appliance comprising a support, a chart carried thereby on which stated events are to be arranged in chronological order, an audible alarm, a clock mechanism which includes means for sounding the alarm at a settable time, and a visual pointer which is manually movable relatively of the support to a fixed position along the chart, at which one of the events will be designated, a connection between the pointer and the clock mechanism for setting the alarm to sound automatically at the time at which the particular event designated by the pointer is to occur, an endless band carrying the pointer, and means for operating said band and the alarm setting mechanism of the clock in synchronism, substantially as described.

7. A memorandum appliance comprising a support, a chart carried thereby on which stated events are to be arranged in chronological order, an audible alarm, a clock mechanism which includes means for sounding the alarm at a settable time, and a visual pointer which is manually movable relatively of the support to a fixed position along the chart, at which one of the events will be designated, a connection between the pointer and the clock mechanism for setting the alarm to sound automatically at the time at which the particular event designated by the pointer is to occur, an endless band carrying the pointer and movable in a plane parallel to the edge of the chart, said band being adapted to be directly moved by hand.

8. A memorandum appliance comprising a support, a chart carried thereby on which stated events are to be arranged in chronological order, an audible alarm, a clock mechanism which includes means for sounding the alarm at a settable time, and a visual pointer which is manually movable relatively of the support to a fixed position along the chart, at which one of the events will be designated, a connection between the pointer and the clock mechanism for setting the alarm to sound automatically at the time at which the particular event designated by the pointer is to occur, an endless band carrying the

pointer and movable in a plane parallel to the edge of the chart, and a winding spindle for moving the band.

9. In combination in an appliance of the character described, a support, a chart mounted on said support of substantially rectangular form, and having space for receiving separated inscriptions thereon, a pointer, means for imparting rectilinear movement to said pointer in a direction parallel to one edge of the chart, a clock mechanism having an alarm device, and means for setting the alarm from the means which gives the pointer its rectilinear movement, substantially as described.

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