

Patented Feb. 15, 1876.

Fig. 2

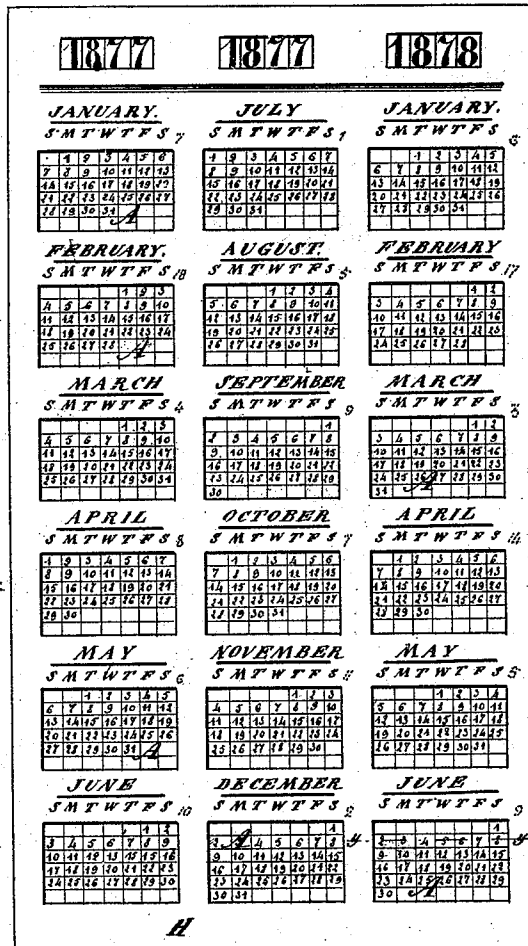


Fig. 3.

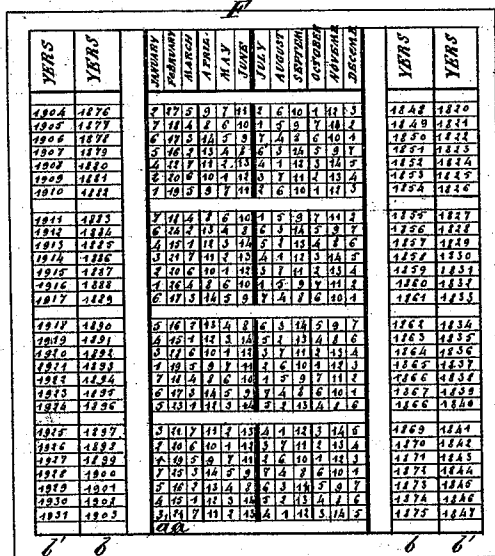


Fig. 4

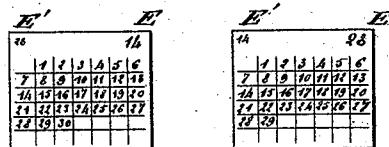
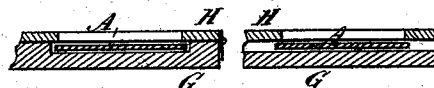


Fig. 5

Fig. 6



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IMPROVEMENT IN PERPETUAL COUNTING-HOUSE CALENDARS.

Specification forming part of Letters Patent No. **173,655**, dated February 15, 1876; application filed November 13, 1875.

To all whom it may concern:

Be it known that I, FREDERICK W. LUTTGEN, of the city, county, and State of New York, have invented a new and useful Improvement in Movable Card-Calendar, of which the following is a specification:

The invention relates to that class of calendars in which the cards may be shifted perpetually, or in which the material employed provides for a greater period of time than the time that is presented to view on the face of the same.

The object of my invention is, first, to make the material employed answer for a greater period of time; second, to render it unnecessary to manipulate such calendars as much as heretofore; third, to make it possible to present a greater period of time to view; fourth, to make a reduction in bulk possible, yet presenting a calendar in the most simple form, retaining all the qualities of convenience, neatness, and intrinsic value.

Figure 1 is a plan view of my improved calendar. Fig. 2 is a plan of a modified form of the same. Fig. 3 is a plan of a key to the calendar. Fig. 4 is a plan of the monthly tablets, and Fig. 5 is a section of Fig. 1 on line *x x*.

Similar letters of reference indicate corresponding parts.

A represents monthly tablets, printed on both sides and numbered, as at E E', said tablets to be arranged in a case, G, and secured so as to be taken out and changed readily, by a frame, H, or any other means, but they may be arranged in a pack, only showing the current month in front, if so desired. These tablets are twenty-eight, or more, counting both sides, and the numbers of the days are arranged in the order of the changes that take place during a period of twenty-eight years, which is the time in which the changes repeat. F represents a key, to be printed on the back of the case as the most convenient place for it, or it may be in tablet form within the case, by which to ascertain how to adjust the tablets for the different years.

This key shows in the columns *a* the day of the month of some particular days, say Sunday, for each month for twenty-eight years,

the years being represented in columns *b b'*. These dates show which tablet is to be taken for any month for any year, and the tablets are accordingly numbered at E E' to correspond with these numbers.

Fig. 1 represents a calendar with twelve tablets, and Fig. 2 represents one with eighteen.

The leading features of novelty in my invention consist: First, in numbering the monthly tablets, A, as represented in drawing at E E', (the figures in the right are the numbers of the monthly tablets presented in the face, and the smaller figures in the left are the number and index to the tablet provided in the other side, each tablet being thus utilized for two months for economizing in the number of tablets.) Second, in the key F, by means of which the cards are selected and put in place for a calendar of any year, (should it be desired to have the calendar of any year not stated in this key, add or deduct 28, or the multiple of 28, to or from such year until you find one of the years stated in this key, and the calendar of the year required will correspond with the calendar of such year found,) and the day of the week of any date is easily found. The numbers of the monthly tablet, as the numbers in the key, correspond with the date of one of the Sundays of the month. Third, the improvement of presenting to view 6, 12, or 18 months, or any other period of time exceeding one month, in a movable card-calendar. Fourth, in a movable calendar printing monthly tablets without the name of any month thereon. Fifth, the case G, with its compartments for the different cards. Sixth, the front plate H, for a monthly calendar, with twelve or more movable cards on the face, and an even surface, and for a calendar of a greater period.

The leap-years are indicated in the key F by the numbers 21 to 28 in February column. The numbers may also be made to represent any other day of the week than Sunday without changing the principle of my invention, and other numbers or characters may be substituted.

For convenience, I take 21 cards, printed on both sides, (though 18 will suffice for an annual perpetual calendar,) to present at once

18 months to view, or to present the important advantage of changing, toward the close of a year, one-half of the calendar to the first months of the succeeding year.

The plate H I propose to keep in place by any simple method suitable to the nature and material used, (such as clasps, slides, hinges, spring-catch, &c.,) and in applying the calendar to articles of furniture, brackets, ornaments, &c., the back plate may be dispensed with, and the partitions placed directly upon the articles, but the partitions may also be connected with the front plate. The calendar may also be cylindrical in form for pedestals of mantel ornaments, &c.

In a perpetual monthly calendar but 14 cards would be required for the months, printed on both sides.

By the key I ascertain what year each monthly tablet is brought into use. These years may be printed on the back of each respective tablet without changing the principle of my invention. This would require 28 cards.

When the calendar is intended, as in the case of a special advertisement, for but a limited time, say two years, some cards may be economized, as the key will indicate.

The days of the week are not changed, but are permanently printed, &c., on the case, always commencing the week with Sunday as the most convenient form.

The usual economy in card by printing the 29th of February in red may also be practised in my invention.

The numbers for the years I also prefer to divide into four cards of 1 figure each, and printed on both sides, but 12, or a thickness of 3 cards each, is only required to cover changes for more than 100 years.

The key is also applicable to calendars arranged in packs to show the current month only.

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

As a new article of manufacture, a perpetual counting-house calendar, consisting of the transferable monthly tablets A, printed without the name of any month, the case G, with its twelve or more compartments, and the perforated plate H, with twelve or more openings for the monthly tablets, and having the name of a month formed upon the face of the plate, one adjoining each opening, as and for the purpose specified.

FREDK. WM. LUTTGEN.

Witnesses:

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