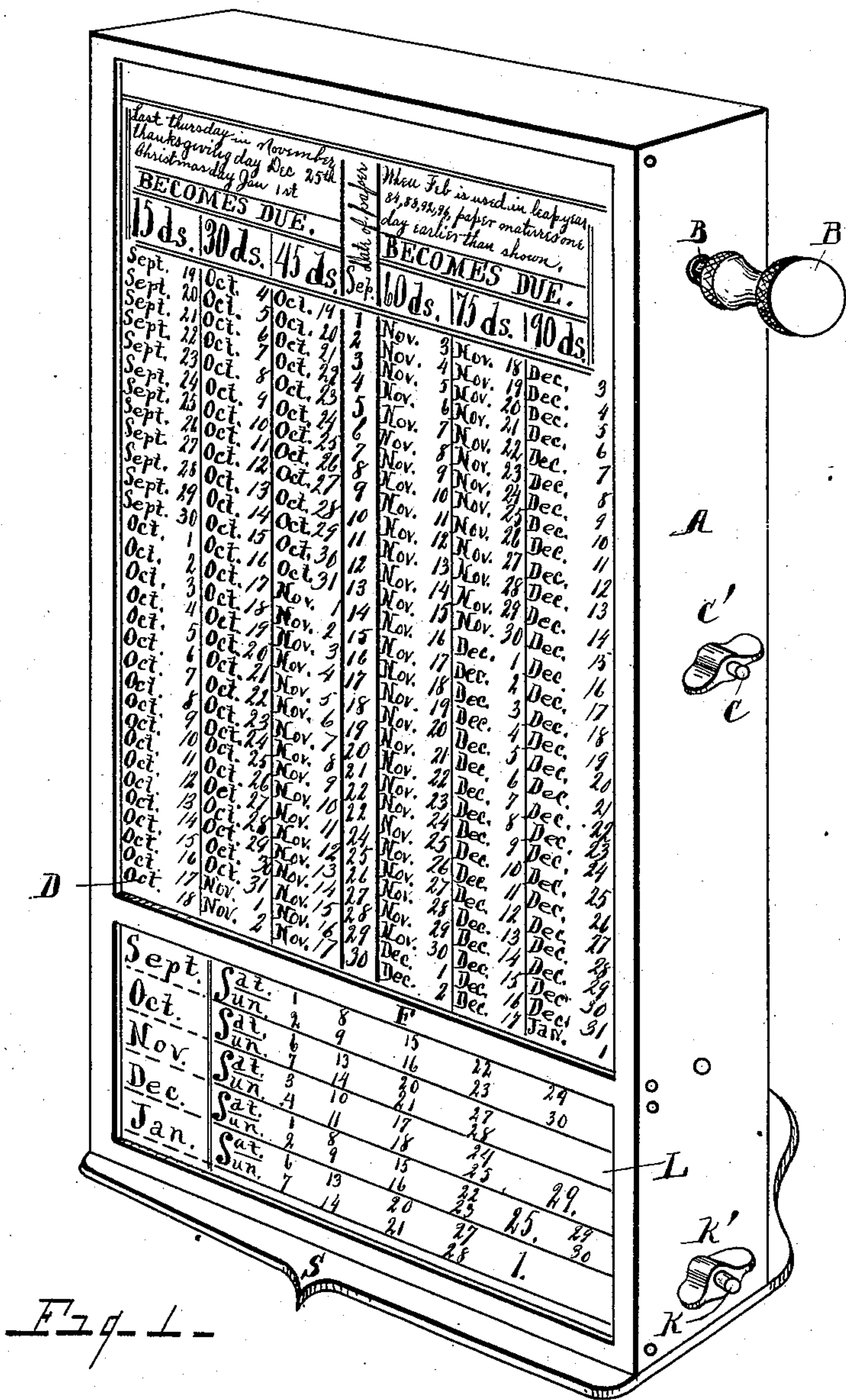


H. H. NORRINGTON.
TIME CALENDAR.

No. 532,810.

Patented Jan. 22, 1895.



WITNESSES

O. B. Baenziger.

M. A. Martin.

INVENTOR

Henry H. Norrington

By his Attorney

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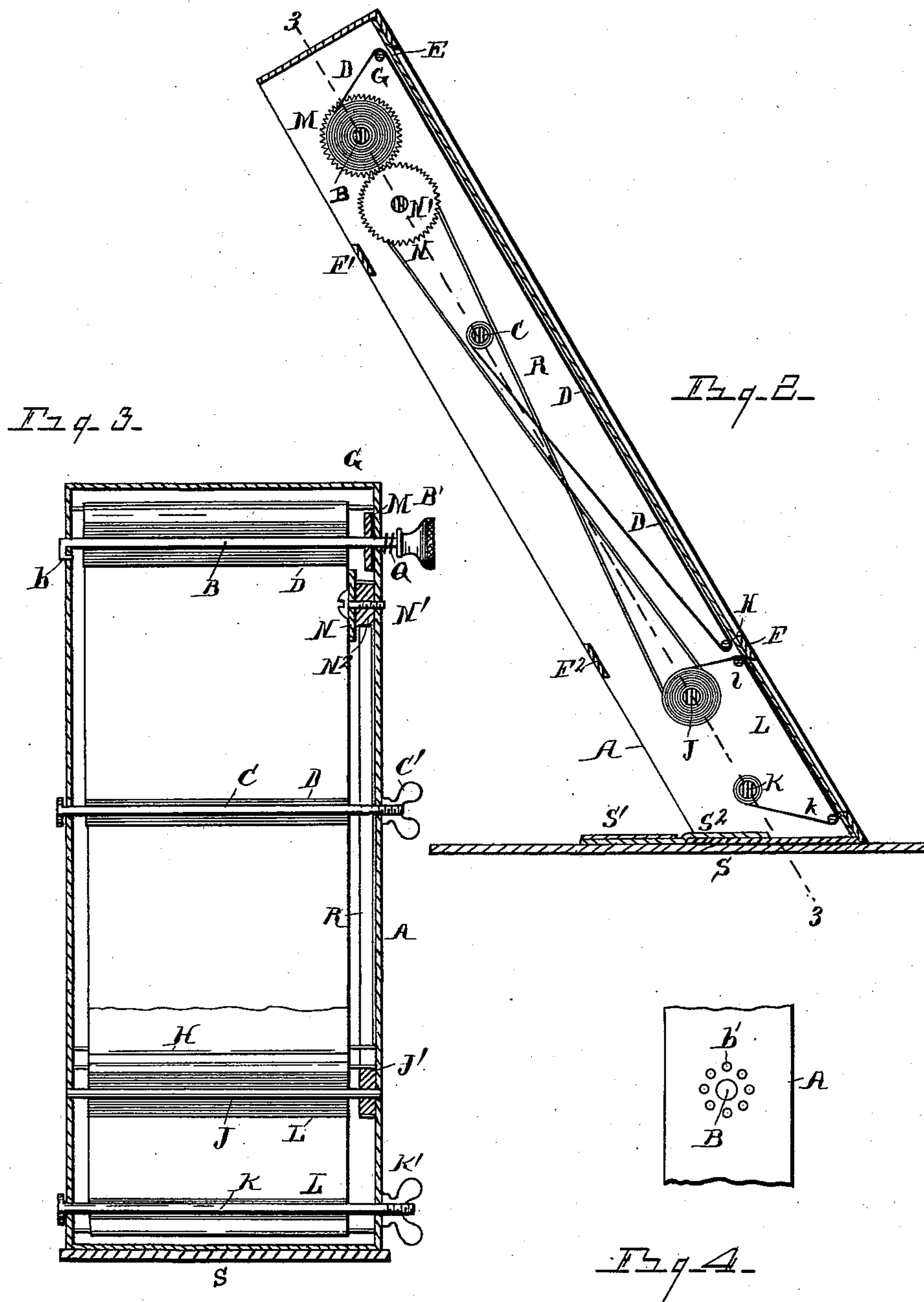
(No Model.)

2 Sheets—Sheet 2.

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UNITED STATES PATENT OFFICE.

HENRY H. NORRINGTON, OF WEST BAY CITY, MICHIGAN.

TIME-CALENDAR.

SPECIFICATION forming part of Letters Patent No. 532,810, dated January 22, 1895.

Application filed April 5, 1894. Serial No. 506,378. (No model.)

To all whom it may concern:

Be it known that I, HENRY H. NORRINGTON, a citizen of the United States, residing at West Bay City, county of Bay, State of Michigan, have invented a certain new and useful Improvement in Time-Calendars; and I declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention has for its object a banking and commercial time calendar of novel construction, operation, and utility, and it consists of the construction, combination and arrangement of the devices and appliances hereinafter specified and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a view in perspective of the calendar embodying my invention. Fig. 2 is a vertical cross section of the same; and Fig. 3 is a section of the same at right angles to and on the line 3—3 of Fig. 2. Fig. 4 is a view in detail showing the orifices *b'* upon the side of the case A adjacent to the spindle B.

The purpose of my invention is to provide in a convenient form a banking and commercial time calendar provided with suitable time tables and operating mechanism, whereby the tables may be brought successively into view. More particularly these time tables are designed to show the time when bills, notes, and other commercial paper mature or fall due so that by reference to the calendar the time can be readily noted when such paper matures without having to reckon time, the tables showing when a note or other paper dated upon any given day becomes due.

My improved time calendar also provides for ascertaining the day when a note or other paper becomes legally due should the specific time limit fall upon Sunday or upon a legal holiday.

I carry out my invention as follows:

A represents a case or frame work which may be made of metal or of any suitable material. Within the case or frame work A is engaged a rotatable spindle B. Another similar spindle C is engaged within the case or frame work at a suitable distance below the

spindle B. These spindles may each extend through one side of the case, the spindle B being provided with an operating head *B'* by means of which the spindle may be rotated. Upon the spindles B and C is wound a time calendar D. This time calendar D consists preferably of a strip of paper or analogous material upon which is printed monthly time tables, the entire strip D preferably consisting of monthly time tables for an entire year, the table for a single month being of a size to be exposed through the upper portion of the case A, the face of the case being provided with a glass front E. Toward the lower end of the case I locate a transverse bar F. A monthly time table is designed to occupy the space, on the face of the case A from the top of the case down to the cross bar F and between the two sides of the case, as indicated more particularly in Fig. 1.

To bring each monthly time table to the face of the case in a neat and efficient manner, I prefer that the end of the strip D engaged upon the spindle B shall be led from said spindle directly over a transverse rod G adjacent to the under surface of the glass E. The strip is thence led from the rod G adjacent to the inner face of the glass down to and over a transverse rod H adjacent to the cross bar F. Thence the strip D is led upward and wound about the spindle C. Upon the outer end of the spindle C, I prefer to locate a thumb nut *C'* having a screw threaded engagement upon the end of said spindle whereby by tightening up the thumb nut, said spindle will be held in fixed position. When it is desired to change the position of the time table strip D, said thumb nut may be loosened permitting the spindle C to rotate. The end of the spindle B opposite the head *B'* may be formed with a finger "*b*" projecting inwardly to engage in corresponding orifices *b'* in the adjacent portion of the case to hold the spindle B in a given position. Any other suitable means may be used to hold the spindles B and C in fixed position when a given monthly time table has been brought into view, and to lock said spindles while a given monthly table is exposed.

Upon the back of the case A may be arranged transverse bars *F'* and *F''*. These serve to stiffen the case. Toward the lower end of

the case A is engaged a rotatable spindle J, beneath which is still another rotatable spindle K. Upon these spindles J and K is wound a calendar strip L. From the spindle J the strip L is preferably led over a transverse rod "l," and thence downward adjacent to the inner face of the glass E to another transverse rod "k." Thence said strip is led upward and engaged with the spindle K. This brings the strip L into view beneath the lower portion of the glass within the case. This lower strip L has printed thereupon monthly calendars showing the Sundays and the holidays of the different months, as indicated more particularly in Fig. 1. The spindle K may be provided with a thumb nut K' having a screw threaded connection therewith, whereby the spindle K may be set and held in place as may be desired, and by loosening which the spindle may be allowed to rotate.

In order to automatically operate the strip L to bring additional monthly calendars into view showing their corresponding holidays and Sundays, I prefer to provide the spindle B with a toothed wheel M normally out of mesh or out of gear with a toothed wheel or pinion N rotatable upon a shaft N' upon which is mounted a pulley N². A spring Q, between the head B' and the adjacent face of the case A, holds the toothed wheel M normally out of gear with the pinion N. Upon the spindle J is engaged a pulley J', the pulleys N² and J' being belted together by a suitable belt or band R. When it is desired to change the calendar strip L, the operator forces the head B' of the spindle B inward, bringing the toothed wheel M into mesh with the pinion N. Then by rotating the spindle B, the pinion N will also be consequently rotated, thereby by means of the belt or band R rotating the pulley J' and the shaft J, thereby moving the strip L into required position. By releasing the head B', the toothed wheel M is carried by the spring Q out of mesh with the pinion N, when the spindle B is free to be rotated independently of the pinion N to move the strip D as may be required. I do not, however, confine myself to operating the strip L automatically.

The party desiring to note the time when a certain paper matures, looks up the maturing date upon the table or calendar D. He then looks at the calendar strip L to see if the maturing date falls upon a Sunday or a holiday. If so, the note legally matures according to the law of the state where the calendar is used, either immediately before or after the holiday date as the law may be.

I prefer to locate the case or frame A at an angle, as shown more particularly in Fig. 2, providing a suitable base S. The case A may have a detachable engagement with the case by providing the base with a loop S' within

which may be engaged the end of a tongue S². The glass may be inserted from the lower end of the case A when base S is detached, the base S holding the glass in place when engaged with the case.

The calendar strip D bears upon its face, as, for example, down the middle of the strip, the days of the month on which may be found the date of the note or other paper. Said calendar also bears upon its face, as upon the right and left of the center, columns of dates indicating different numbers of days when a note becomes due, according to the number of days from the day on a corresponding horizontal line indicated in the center column; thus, for example, as shown in Fig. 1, wherein the different days of the month of September are indicated in the central vertical column. Suppose now, for example, a note be given on the 10th of September, due in seventy-five days. Looking to the right in the same horizontal line in which the numeral 10 occurs in the central column and under the head at the upper end of the monthly calendar, we discover that the note becomes due November 27. If the note dated September 10 was due in forty-five days, we would look under the head forty-five days at the left of the central column of figures, and find the numeral under said head on the same horizontal line as the numeral 10 in the central column, and find that said note was due October 28. In either of these cases or in any other given case, having thus learned upon what date the paper falls due, so far as time limit alone is concerned, we glance to the strip L to see whether the corresponding day of the month on which the paper would naturally fall due is a legal holiday or a Sunday, and act accordingly.

What I claim as my invention is—

1. In a calendar, the inclosing frame, the spindle B, having an endwise movement, and provided with a gear wheel; the second spindle C, and the calendar strip D; combined with the spindles J, K, the strip L, the wheel N, pulleys, and the endless belt which passes around the pulleys, substantially as shown.

2. The inclosing frame, the endwise moving spring actuated spindle B, having means upon one end to lock it in place; the gear wheel, secured to spindle, the calendar strip D, guiding pulleys over which it passes, and the spindle C, combined with the spindles J, K, the strip L, the pulleys J', N², the endless belt R, and the gear wheel N, secured to and operating the pulley N², substantially as described.

In testimony whereof I sign this specification in the presence of two witnesses.

HENRY H. NORRINGTON.

Witnesses:

DANIEL M. SHAVER,
FRED. J. REEVES.