

C. N. HOYT.  
CALENDAR.

No. 481,563.

Patented Aug. 30, 1892.

Fig. 1.

JANUARY, 1892.													
1892	SUN	MON	TUE	WED	THU	FRI	SAT	1892					
JAN	1809 SUN 1816	1803 MON 1800	1802 TUE 1813	1801 WED 1807	1800 THU 1800	1806 FRI 1811	1804 SAT 1810	JUL					
APR													
	1800 MON 1826	1814 TUE 1825	1819 WED 1824	1812 THU 1818	1817 FRI 1823	1816 SAT 1822	1821 SUN 1827	OCT					
	3	4	5	6	7	8	9						
MAY	1837 TUE 1843	1831 WED 1830	1830 THU 1841	1829 FRI 1835	1833 SAT 1834	1833 SUN 1839	1838 MON 1838						
	10	11	12	13	14	15	16						
FEB	1842 WED 1854	1842 THU 1853	1847 FRI 1852	1846 SAT 1846	1845 SUN 1851	1844 MON 1850	1849 TUE 1855	AUG					
	17	18	19	20	21	22	23						
MAR	1855 THU 1871	1859 FRI 1864	1858 SAT 1869	1857 SUN 1863	1856 MON 1862	1861 TUE 1867	1860 WED 1866	NOV					
	24	25	26	27	28		30						
JUN	1876 FRI 1882	1870 SAT 1881	1875 SUN 1880	1874 MON 1874	1879 TUE 1873	1878 WED 1878	1877 THU 1883						
	31					29							
	1893 SAT 1899	1887 SUN 1892	1896 MON 1897	1886 TUE 1891	1894 WED 1890	1889 THU 1895	1888 FRI 1894	SEP DEC					
JAN	OCT	MAY	FEB	AUG	FEB	MAR	NOV	JUNE	SEP	DEC	JAN	APR	JUL
TUE		WED		THU		FRI		SAT		SUN		MON	

DIRECTIONS.—Any date of 1892 is ascertained by using the cross row of Days on line with the desired Month, found at the sides of the tablet. Use each cross row without reference to any other, and as if it were the only one in view. For any date of Century, find the desired Month at the bottom of the calendar, and the Month Day under it; then find the Year, and in the same column with the year again find the Month Day, and use the cross row of Days in which it appears. For Leap Years, printed in heavy-faced type, always use the heavy-faced January and February at the bottom of the calendar when finding the Month Day of those months.

Fig. 2.

c		Fig. 2.							c	
TAKE THESE MONTHS FOR LEAP YEARS, AND 1892		JANUARY, 1892.							TAKE THESE MONTHS FOR ORDINARY YEARS.	
JAN APR JUL		SUN	MON	TUE	WED	THU	FRI	SAT	APR JUL	
		SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY		
		1804 1838 1877 1810 1849 1883 1821 1855 1889 1827 1860 1894 1833 1868 1900	1806 1839 1872 1811 1844 1878 1816 1850 1889 1822 1861 1895 1833 1867	1800 1834 1873 1806 1845 1879 1817 1851 1884 1823 1855 1890 1828 1862	1801 1835 1868 1807 1840 1874 1812 1846 1885 1818 1857 1891 1829 1863 1898	1802 1841 1875 1813 1847 1880 1819 1852 1886 1824 1858 1897 1830 1869	1	2		
OCT		MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	JAN OCT	
		3	4	5	6	7	8	9		
MAY		TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	MAY	
		10	11	12	13	14	15	16		
FEB AUG		WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	AUG	
		17	18	19	20	21	22	23		
MAR NOV		THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	FEB MAR NOV	
		24	25	26	27	28	29	30		
JUNE		FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	JUN	
		31					1803 1836 1870 1808 1842 1881 1814 1853 1887 1825 1859 1892 1831 1864 1898	1809 1843 1876 1815 1848 1882 1820 1854 1893 1826 1865 1899 1837 1871		
SEP DEC		SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SEP DEC	

DIRECTIONS.—Any date of 1892 is ascertained by using the cross row of Days on line with the desired Month, found on the left side of the tablet. Use each cross row without reference to any other days on the calendar, and as if it were the only one in view. For any date of Century, find the desired Year. In the same column with this year, on line with the desired Month, is that month's first day. The cross row of Days in which this first day appears in the same column with date 1, is the row to use with the dates. The Leap Years of the Century are printed in heavy-faced type. Always use the months on the left for Leap Years, and those on the right for Ordinary years.

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(No Model.)

3 Sheets—Sheet 2.

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Fig. 3.

JANUARY, 1892.							
SUN	MON	TUE	WED	THU	FRI	SAT	
SEP DEC SUNDAY	JUNE MONDAY	FEB MAR NOV TUESDAY	FEB AUG WEDNESDAY	MAY THURSDAY	JAN OCT FRIDAY	JAN APR JUL SATURDAY	JUL
1809 1843 1876 1815 1844 1882 1820 1854 1893 1826 1865 1899 1837 1871	1804 1838 1877 1810 1849 1888 1821 1855 1894 1827 1866 1900	1806 1839 1878 1811 1844 1878 1816 1850 1889 1822 1861 1895 1833 1867	1800 1834 1873 1806 1845 1879 1817 1851 1894 1823 1855 1890 1828 1862	1801 1835 1874 1807 1840 1874 1812 1846 1885 1818 1857 1891 1829 1863 1896	1	2	
JAN APR JUL MONDAY	SEP DEC TUESDAY	JUNE WEDNESDAY	FEB MAR NOV THURSDAY	FEB AUG FRIDAY	MAY SATURDAY	JAN OCT SUNDAY	OCT
3	4	5	6	7	8	9	
JAN OCT TUESDAY	JAN APR JUL WEDNESDAY	SEP DEC THURSDAY	JUNE FRIDAY	FEB MAR NOV SATURDAY	FEB AUG SUNDAY	MAY MONDAY	
10	11	12	13	14	15	16	
MAY WEDNESDAY	JAN OCT THURSDAY	JAN APR JUL FRIDAY	SEP DEC SATURDAY	JUNE SUNDAY	FEB MAR NOV MONDAY	FEB AUG TUESDAY	AUG
17	18	19	20	21	22	23	
FEB AUG THURSDAY	MAY FRIDAY	JAN OCT SATURDAY	JAN APR JUL SUNDAY	SEP DEC MONDAY	JUNE TUESDAY	FEB MAR NOV WEDNESDAY	NOV
24	25	26	27	28	29	30	
FEB MAR NOV FRIDAY	FEB AUG SATURDAY	MAY SUNDAY	JAN OCT MONDAY	JAN APR JUL TUESDAY	SEP DEC WEDNESDAY	JUNE THURSDAY	
31							
JUNE SATURDAY	FEB MAR NOV SUNDAY	FEB AUG MONDAY	MAY TUESDAY	JAN OCT WEDNESDAY	JAN APR JUL THURSDAY	SEP DEC FRIDAY	SEP DEC

DIRECTIONS.—Any date of 1892 is ascertained by using the cross row of Days on line with the desired Month, found at the sides of the tablet. Use these days without reference to any other cross row on the calendar, and as if they were the only ones in view. For any date of Century, find the desired Year, and in the same column with this year find the Month wanted, then use the cross row of Days directly under this month. For Leap Years, printed in heavy-faced type, always use the heavy-faced January and February, and for Ordinary years the light-faced.

Fig. 4.

JANUARY 1892							
SUN	MON	TUE	WED	THU	FRI	SAT	
					1	2	
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	
3	4	5	6	7	8	9	
TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	
10	11	12	13	14	15	16	
WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	
17	18	19	20	21	22	23	
THURSDAY	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	
24	25	26	27	28	29	30	
FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	
31							
SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	

DIRECTIONS.—Find the Month wanted, and use the cross row of Days on line with this month. Months of 1892 are on the left, 1893, on the right. Use each cross row of Days without reference to any other on the calendar, and as if it were the only one in view.

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# UNITED STATES PATENT OFFICE

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## CALENDAR.

SPECIFICATION forming part of Letters Patent No. 481,563, dated August 30, 1892.

Application filed January 27, 1892. Serial No. 419,434. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES N. HOYT, a citizen of the United States, and a resident of Brooklyn, Kings county, New York, have invented certain Improvements in Calendars, of which the following is a specification.

My invention relates to the class of calendars comprising each a monthly calendar and a calendar for the year or a series of years combined therewith; and the essential feature of the calendar is the arrangement between or with the rows of conspicuous numerals which designate the days of the month on the monthly calendar of alternating rows of time divisions—that is, days, month, or years, one or more—these time divisions being designated by names or numerals and printed in much less conspicuous characters than the characters of the monthly calendar. Thus the calendar when placed at a little distance from the eye will present clearly the matter forming the common monthly calendar without liability of confusion with the interlined matter, while the latter enables the user to readily ascertain on what day of the week will fall any given day of the month in a given year.

My invention will be fully described hereinafter, and its novel features carefully defined in the claims.

In the accompanying drawings I have illustrated several forms of calendars embodying my invention.

Figures 1, 2, and 3 are different forms of combined monthly and century calendars. Fig. 4 illustrates a simpler form of the calendar combining a monthly and biennial calendar. Fig. 5 is a combined monthly and century calendar in which the years or the numerals designating them are arranged in numerical order, so as to be readily found.

In all of the calendars illustrated the monthly calendar is that of January, 1892; but the principle is the same for any month of any year.

Referring first to Fig. 1, at the top is printed, in conspicuous characters, "January, 1892," and below this, in conspicuous type and in a horizontal row, the names of the seven days of the week—"Sun.," "Mon.," "Tue.," &c. Below each name of a week-day of this row are the numbers of the days of the month it falls

on, arranged in vertical columns divided by ruled lines. Under "Sun." we find, for example, the numerals "3," "10," "17," "24," and "31." These numbers of the days of the month read from left to right, being arranged in horizontal rows, and the numerals are large and conspicuous. For brevity I will call these conspicuous day-of-the-month numerals (which are common to most calendars) the "D. O. M." numerals.

What I have so far described constitutes the ordinary monthly calendar. On the face of such a calendar I print cross-rows *a* of time divisions, which alternate with the rows of "D. O. M." numerals and are usually parallel therewith. Thus the time divisions in each row *a* will be divided into groups, each group being in one of the vertical columns of "D. O. M." numerals, and each group in Fig. 1 consists of the name of a day of the week and one or more year numbers. For example, in the first group to the left of the second row *a* of time divisions, over the "D. O. M." numeral "3," we find "1820, Mon., 1826." At the extreme lower part of the calendar in Fig. 1 is a horizontal row *b* of time divisions, which are also divided into groups in the same manner as those in the rows *a*. The groups in the row *b* are index groups and contain each the name of a day of the week and one or more names of months. For example, on the left under the first column of the "D. O. M." numerals the group in row *b* is "Tue., Jan., Oct."

Provision is made for the current year 1892 of the calendar in a manner to be hereinafter described; but for any other year of the century the day of the month on which any day of any other year of the century will fall may be readily ascertained as follows: Seek the desired month in the index groups of row *b* at the bottom of the calendar and note the week-day in the same group. Then seek the year again in the groups of the rows *a*, and when found in the same vertical column find the week-day previously noted in the index group of row *b*. Then use the week-days in that cross-row *a* in lieu of the row of week-days at the top of the calendar. For example, suppose we wish to find on what day fell August 1, 1826. Turning to the index group of row *b*, under the third column from the left, we find the desired month "Aug.," and



note that in the same group is the week-day "Thu." We find the year "1826" in the second row *a* and first vertical column at the left. Following down this column we find "Thu.," the week-day noted, in the fifth row *a*. Now by mentally substituting the week-days as arranged in this fifth row *a* for those at the head of the monthly calendar we find that in the month of August, 1826, Tuesday was the 1st, 8th, 15th, 22d, and 29th, Thursday the 3d, 10th, 17th, 24th, and 31st, and so on.

For the current year of the calendar I have arranged the matter differently. At the left-hand and right-hand ends of the monthly calendar are auxiliary columns *c c*, at the head of each of which is printed the year number 1892, and opposite the respective cross-rows *a* are printed, in one or the other of the columns *c*, the names of the months in the year. All of the names of the months might as well be printed in one column *c* and the other column *c* be omitted; but for the purpose of attaining symmetry I prefer the arrangement shown. For any month in the year 1892 it is only necessary to mentally substitute for the cross-row of week-days at the top of the monthly calendar the cross-row of week-days found in the groups of the row *a* opposite to the desired month. For example, if we wish to know the arrangement of days of the month of May, 1892, we find "May" in the left-hand column *c* and mentally substitute the days in the opposite row *a*—viz., Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday, Monday—for those in the row at the head of the monthly calendar. We find that in May, 1892, Sunday will be the 1st, 8th, 15th, 22d, and 29th.

The leap-years of the century are printed in the rows *a* in darker-faced type than the other years, and for a leap-year if the month sought be January or February the "Jan." and "Feb." in the row *b*, which are printed in dark-faced type, should be used. The names of these two months will be found repeated in the row *b*. For practical use the leap-years and leap-year months may be printed in different colored ink.

The monthly calendar illustrated in Fig. 2 is the same as that seen in Fig. 1, but there is a slight variation in the other matter. In order to leave room in the alternating cross-rows *a* for the full name of the week-day, the number of the years of the century are grouped together, either at the top or bottom of the columns of conspicuous "D. O. M." numerals in the blank spaces of the monthly calendar. Therefore the groups in the rows *a* contain only the names of days. The row *b* of index groups is omitted. At the left, in column *c*, are the names of the months opposite the respective rows *a*, and at the right is a column *d*, containing, also, the names of the months opposite the respective rows *a*.

I will give an illustration which will explain how to find any desired date of the century. Suppose we wish to find, as before, on

what day August 1, 1826, fell. Seek the year 1826 in the year groups. It will be found in the group at the foot of the last column to the right. Follow up this column to the cross-row *a* opposite to the month "Aug." in column *d*. The day "Tuesday" appears in the row *a* opposite the month "Aug." and in the same column with the year "1826." This is that month's first day. Now if we look down the column containing "1" of the "D. O. M." numerals until we come to the cross-row *a*, in which the name "Tuesday" appears, we may mentally substitute this row *a* for the row of week-days at the top of the monthly calendar, as explained with reference to Fig. 1. If the year sought be a leap-year use the column *c* at the left in place of the column *d*. The column *c* is also used, as before explained in reference to Fig. 1, for ascertaining a date in 1892.

The monthly calendar illustrated in Fig. 3 is the same as those already described; but the other matter varies slightly. The year numerals of the century are grouped in the blank spaces of the monthly calendar, as in Fig. 2, and the columns *c c* at the right and left are used for the year 1892 in the same manner as in the calendar of Fig. 1. The groups in the alternating cross-rows *a* contain the names of months and days, as "Tue.," "Jan.," "Oct." The cross-row *b* of Fig. 1 is not used.

I will explain by an illustration how we may find on what day any date of the century falls, and we will suppose, as before, that the date sought is August 1, 1826. Seek the year 1826 in the year groups. It will be found in the group at the head of the first column at the left. Follow down this column until the month "Aug." is found in a group of one of the alternately-arranged rows *a* of time divisions. It will be found in the fifth row from the top. Mentally substitute the arrangement of days in this row for that of the monthly calendar and we find that in August, 1826, the 1st, 8th, 15th, 22d, and 29th fell on Tuesday.

The monthly calendar illustrated in Fig. 4 is the same as those before described. This is merely a biennial calendar for the years 1892 and 1893, and the alternating cross-rows *a* contain only the names of days. The column *c* at the left is for 1892, and contains the names of the months arranged as in the calendars before described. The column *c'* at the right is for 1893, and has the names of the months arranged opposite the respective rows *a*. For example, if we wish to know the arrangement of the days in October, 1893, we find "Oct." in the column *c'* and mentally substitute the opposite row *a* of days for those of the monthly calendar. Thus the 1st, 8th, 15th, 22d, and 29th of October, 1893, will fall on Sunday.

The monthly calendar of Fig. 5 is the same as those before described, and the other matter differs from that in Fig. 3 only in the ar-



rangement of the year numbers of the cen-  
 tury in regular order in the successive groups,  
 so that the desired year may be found with-  
 less difficulty. To permit of this arrange-  
 5 ment, however, each year number is provided  
 with an index number, as "1801-3," in which  
 "3" is the index-number for that year. To  
 illustrate the use of this calendar, suppose we  
 take the same month and year as before. We  
 10 wish to ascertain on what day August 1, 1826,  
 will fall. In the group at the head of the  
 third column of "D. O. M." numerals we find  
 "1826-7". Take the column of "D. O. M."  
 numerals of the monthly calendar in which  
 15 the numeral "7" is found—that is, the fifth  
 from the left. Seek the month "Aug." in the  
 groups of the rows  $\alpha$  in this column. It will  
 be found in the fifth row  $\alpha$  from the top. This  
 fifth row  $\alpha$  contains the arrangement of days  
 20 to be used in lieu of that at the head of the  
 monthly calendar, and by this we find, as be-  
 fore, that in the month of August, 1826, the  
 1st, 8th, 15th, 22d, and 29th fell on Tuesday.

It will be seen that the several calendars  
 25 illustrated differ only in detail and not in  
 principle. Each has an ordinary monthly  
 calendar printed in conspicuous characters  
 and adapted for the ordinary purposes of such  
 a calendar. Each has, also, the same simple  
 30 arrangement for ascertaining on what day any  
 date of the current calendar year will fall.  
 Each has, also, a provision for ascertaining on  
 what day any date of the current year and  
 other years will fall, this provision compris-  
 35 ing cross-rows  $\alpha$  of time divisions, as years,  
 months, days, which alternate with the cross-  
 rows of "D. O. M." numerals of the monthly  
 calendar and are less conspicuous than the  
 latter.

40 Having thus described my invention, I  
 claim—

1. A monthly calendar having the numbers  
 of the days of the month in conspicuous nu-  
 merals arranged in seven columns and form-  
 45 ing cross-rows reading from left to right and  
 having, also, cross-rows  $\alpha$  of time divisions in  
 less-conspicuous characters extending across  
 the calendar and alternating with the rows  
 of conspicuous numerals of the monthly cal-  
 50 endar, substantially as and for the purposes  
 set forth.

2. A monthly calendar having the numbers  
 of the days of the month in conspicuous nu-  
 merals arranged in seven columns and form-  
 ing cross-rows reading from left to right and 55  
 having cross-rows  $\alpha$  of time divisions in less-  
 conspicuous characters extending across the  
 calendar and alternating with the rows of con-  
 spicuous numerals of the monthly calendar,  
 and having, also, a column  $c$ , containing the 60  
 number of the current year of the calendar,  
 and the names of the months arranged oppo-  
 site the respective rows  $\alpha$ , substantially as and  
 for the purposes set forth.

3. A monthly calendar consisting of the 65  
 names of the current month and year, the  
 names of the days of the week arranged in a  
 row, and the numbers of the days of the month  
 in conspicuous numerals arranged in columns  
 and forming cross-rows, as set forth, said 70  
 monthly calendar having cross-rows  $\alpha$  alter-  
 nating with the rows of day-of-the-month nu-  
 merals of the calendar and consisting of groups,  
 each comprising the name of a week-day and  
 the name of one or more months, and having, 75  
 also, printed in the blank spaces of the calen-  
 dar the numbers of the years of the century  
 arranged in groups, substantially as and for  
 the purposes set forth.

4. A monthly calendar consisting of the 80  
 names of the current month and year, the  
 names of the days of the week arranged in a  
 row, and the numbers of the days of the month  
 in conspicuous numerals arranged in vertical  
 columns and forming cross-rows, as set forth, 85  
 said calendar having rows  $\alpha$  alternating with  
 the rows of conspicuous numerals of the  
 monthly calendar, the rows  $\alpha$  being composed  
 of groups comprising each the name of a day  
 of the week and the name of a month, and 90  
 having, also, printed in the blank spaces of  
 the monthly calendar the numbers of the years  
 of the century arranged in their proper order  
 and each having an index-number, substan-  
 tially as and for the purposes set forth. 95

In witness whereof I have hereunto signed  
 my name in the presence of two subscribing  
 witnesses.

CHAS. N. HOYT.

Witnesses:

JOSEPH A. GALLAGHER,  
 SAMUEL J. COMFORT.