A. W. SOUTH.

REMINDER CLOCK.

APPLICATION FILED JAN. 6, 1915

1,296,438.

Patented Mar. 4, 1919.

3 SHEETS—SHEET 1.

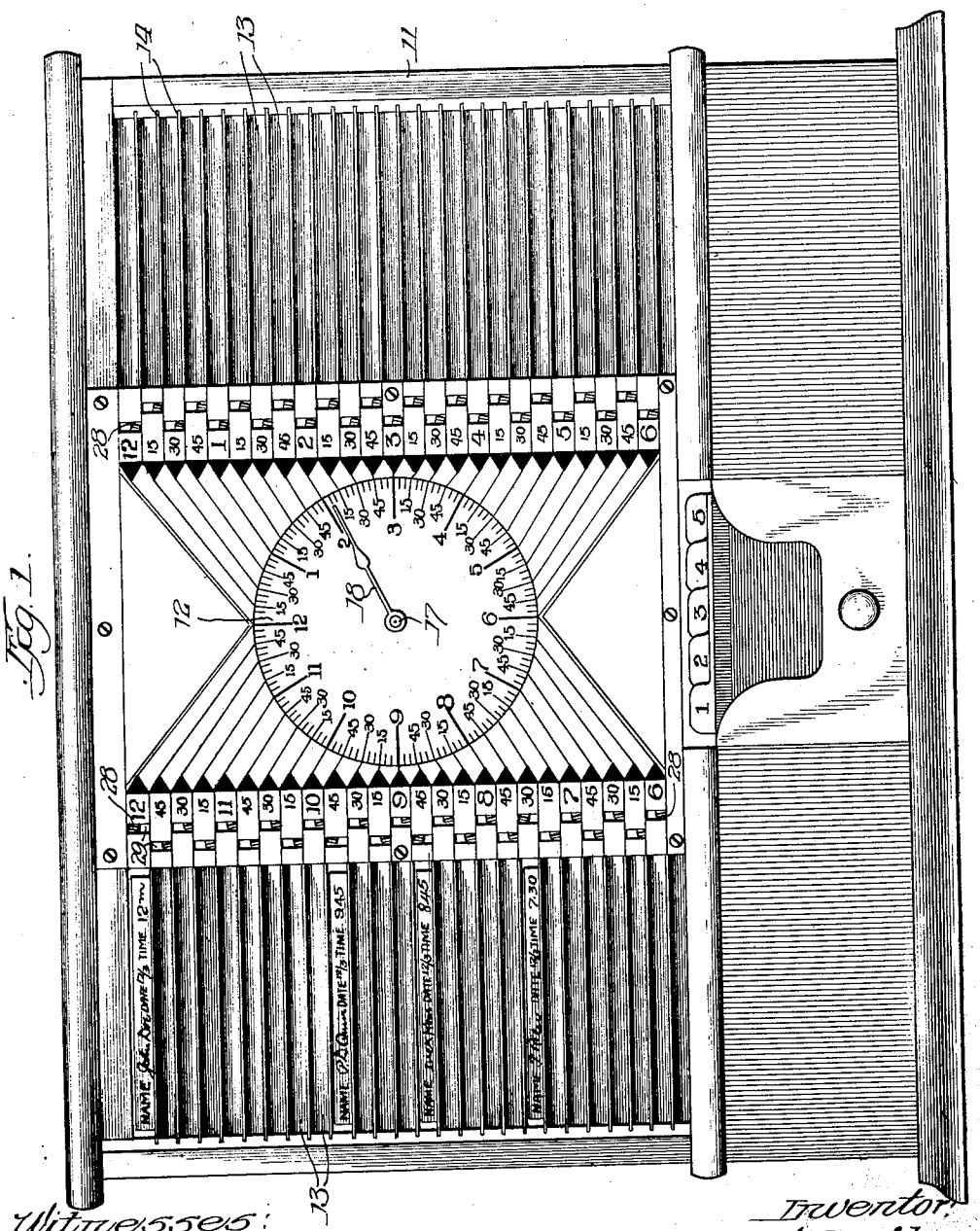


Fig. 1.

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3 SHEETS—SHEET 2.

FIG. 4

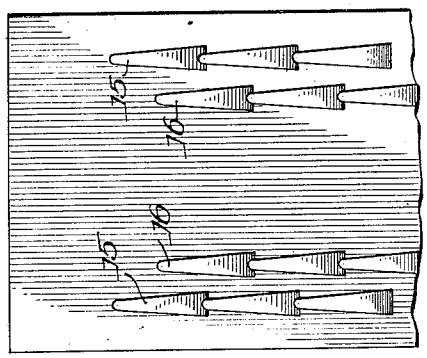
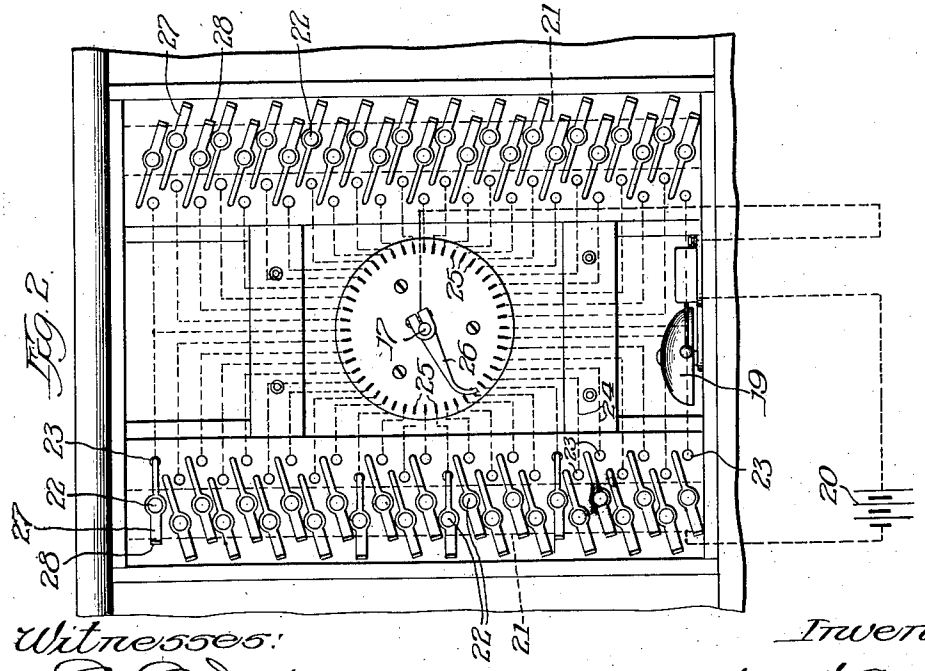


FIG. 3

FIG. 2



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3 SHEETS—SHEET 3.

Fig. 6.

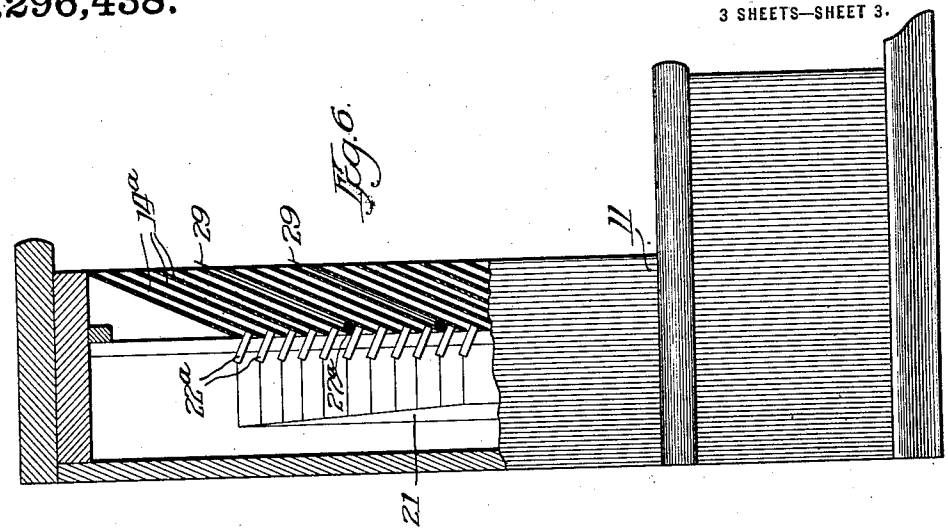


Fig. 8.

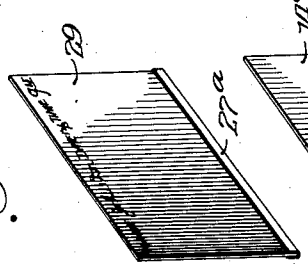


Fig. 7.

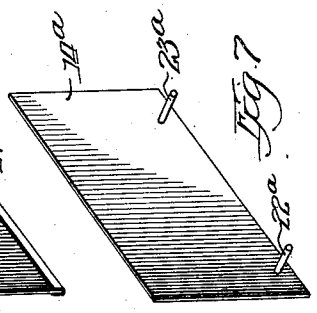
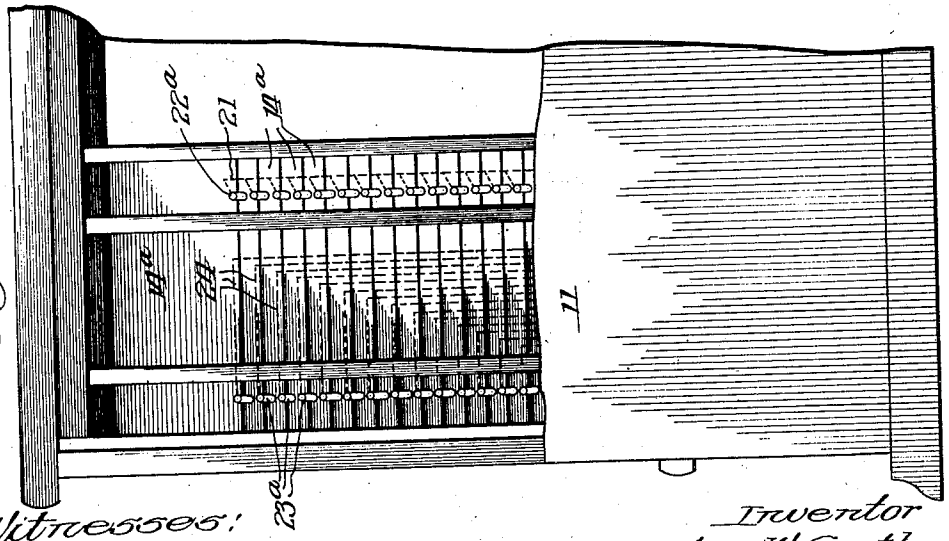


Fig. 5.



Witnesses:

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UNITED STATES PATENT OFFICE.

AUGUSTUS W. SOUTH, OF CHICAGO, ILLINOIS, ASSIGNOR TO AUTOMATIC REMINDER COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

REMINDER-CLOCK.

1,296,438. Specification of Letters Patent. Patented Mar. 4, 1919.

Application filed January 6, 1915. Serial No. 731.

To all whom it may concern:

Be it known that I, AUGUSTUS W. SOUTH, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Reminder-Clocks, of which the following is a specification.

This invention relates to time pieces adapted to act as reminders as to matters requiring attention at a predetermined time, the object being to provide a reminder clock containing receptacles for the reception of data concerning such matters and including electric circuits corresponding in number to the receptacles, each of the circuits being open at two points, one of the open points adapted to be closed by a switch either automatically or manually at the time of placing a card or the like in the receptacle and the other adapted to be closed by the hand as it traverses the dial and reaches a contact forming one terminal of the circuit corresponding to the particular pocket.

The invention is an improvement upon that form of construction set forth in Patent No. 1,068,538, granted to me on July 29, 1913, which patent did not include pockets for reminder cards nor any means for automatically calling attention to the fact that the time had arrived at which action should be taken relating to a given matter.

In order that the invention may be readily understood a preferred, and modified embodiments of the same are set forth in the accompanying drawing and in the following detailed description based thereon. Obviously the invention is susceptible of embodiment in other and varied constructional forms wherefore the drawing and description are to be taken in an illustrative and not in an unnecessarily limiting sense. In the drawings—

Figure 1 is a front elevation of a reminder clock embodying the invention;

Fig. 2 is a fragmentary view of the central portion of Fig. 1 with the face plate removed;

Fig. 3 is an end elevation of Fig. 1 with certain parts shown in vertical section;

Fig. 4 is a fragmentary view illustrating a modified form of card receptacle;

Fig. 5 is a rear view of the modification with certain parts broken away to illustrate the electrical connections;

Fig. 6 is an end elevation of the same embodiment as Fig. 5 with certain parts shown in vertical section;

Fig. 7 is a detail view in perspective of the receptacle leaves forming the pockets in that form of construction shown in Figs. 5 and 6; and

Fig. 8 is a view in perspective of a reminder card used in connection with the last described embodiment and providing for the automatic closing of the circuit.

The reminder clock comprises in general a case 11, provided with a clock face 12 having the hour graduations and also subdivisions corresponding to quarters and still further subdivisions corresponding to intervals of five minutes. At each side of the clock are arranged receptacles, here shown in the form of pockets 13, formed between leaves 14 of celluloid, vulcanized rubber, metal, wood or the like arranged in spaced relation at a steep inclination, the pockets corresponding in number to the quarter hour intervals, and those on the right representing the time from twelve to six, and those on the left from six to twelve.

In Fig. 4 these receptacles are shown as formed by means of tongues arranged in pairs 15, 15 and 16, 16 stamped up out of metallic sheets and corresponding as in Fig. 1 to the quarter hour divisions of time.

The arbor 17 of the hand 18 is included within an electric circuit which also includes the alarm bell 19 and the battery 20. The other pole of the battery is connected to bus wires 21 each of which serves to connect in common one terminal of a plurality of pairs of terminals 22, 23, the other terminals 23 being individually connected by wires 24 each with one of a series of contacts 25 arranged about the dial of the clock and traversed by a hand 26 mounted on the arbor 17. A plurality of switches 27 pivotally mounted upon the terminals 22 are arranged to be manually operated by means of the studs 28 so as to close the circuit between any pair of terminals 22 and 23. The studs 28 project through slots 29 in the face of the clock and each opposite one of the pockets 13.

In operation as a card or other reminder is placed in one of the pockets corresponding to the time at which it is to receive attention the person placing the card also lifts the corresponding stud 28 whereby the circuit is closed at that point by the corre-

sponding switch 27 but remains open at the dial. When the hand reaches the contact corresponding to the time at which said matter is to be attended to the circuit is completely closed through said contact and the bell is sounded.

Having particular reference to Figs. 5 to 8 inclusive, a form of construction is shown by way of example in which the circuit is closed at the receptacle automatically upon the insertion of the card. In this form of construction the leaves 14^a forming the pockets are preferably made of non-conducting material such as wood, rubber, fiber or the like and are provided at their lower edges near one end with pins 22^a corresponding to the terminals 22 and connected by means of the bus wires 21. The cards are also provided in a corresponding position at the other end with pins 23^a corresponding to the terminals 23 and each connected by means of its wire 24 with a corresponding contact on the dial. The circuit may be closed through the terminals 22^a and 23^a in a number of ways but for purposes of illustration I have shown a special form of reminder card 29 having one edge tipped with a metallic strip 27^a which may be of tinfoil or the like. The dropping of the card into the pocket will, as is readily understood, close the circuit between the terminals 22^a and 23^a automatically and as soon as the hand 26 reaches the corresponding contact 25 the circuit will be completed and the alarm will sound, the metallic strip 27^a serving a function analogous to the switch 27.

I claim:

1. The combination with a time circuit closing mechanism, an alarm and electric circuit in an appointment reminder, of a box provided with a plurality of transversely extending pockets, and appointment cards designed to be located in said pockets and adapted to close the electric circuit.

2. A reminder clock comprising clock mechanism, a dial, a hand traversing the dial, spaced contacts about the dial corresponding to the divisions of time, receptacles for data of matters to receive attention at a predetermined time, said receptacles corresponding in number to the said contacts, a plurality of terminals arranged in pairs corresponding to the number of receptacles, a source of electric current having one pole connected to the hand and the other to one terminal of each pair, and means controlled by the presence of a card or the like in a given receptacle to close and maintain the circuit between the pair of terminals corresponding to that receptacle, whereby to provide a circuit open only at the dial contact which circuit is closed when the hand reaches said contact.

3. A reminder clock comprising clock mechanism, a dial, a hand traversing the dial, spaced contacts about the dial corresponding to the divisions of time, receptacles for data of matters to receive attention at a predetermined time, said receptacles corresponding in number to the said contacts, a plurality of terminals arranged in pairs corresponding to the number of receptacles, a source of electric current having one pole connected to the hand and the other to one terminal of each pair, and means controlled by the presence of a card or the like in a given receptacle to close and maintain the circuit between the pair of terminals corresponding to that receptacle, whereby to provide a circuit open only at the dial contact which circuit is closed when the hand reaches said contact, the receptacles grouped on the two sides of the dial, and the dial bearing radiating lines leading toward the receptacles of each group from the time divisions on that side of the dial whereby to visually connect each receptacle with its corresponding time division.

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

AUGUSTUS W. SOUTH.

Witnesses:
LEWIS T. GREIST,
T. D. BUTLER.