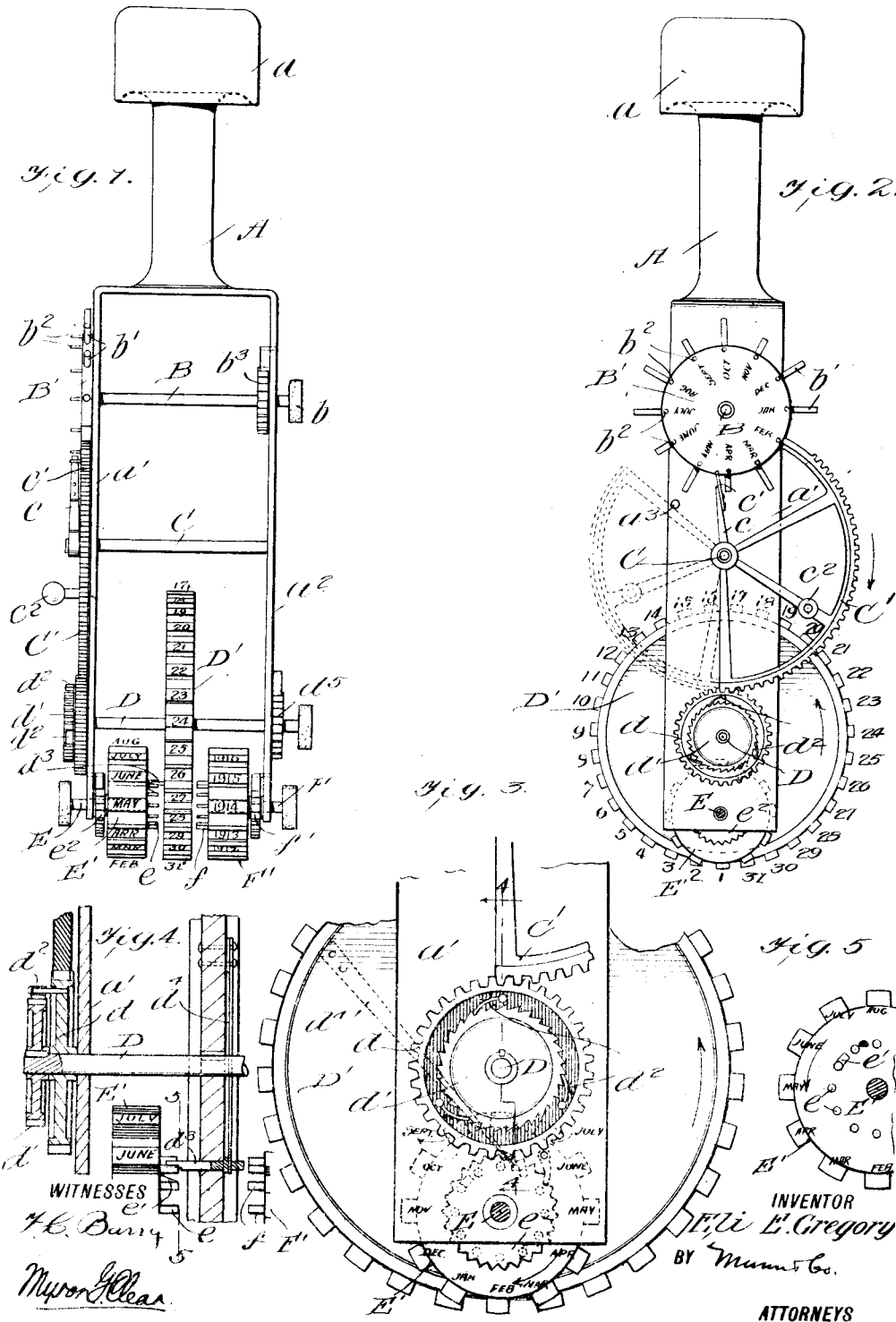


E. E. GREGORY.
 DATING MACHINE.
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Patented Oct. 14, 1913.



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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ELI E. GREGORY, a citizen of the United States, and a resident of Central City, in the county of Muhlenberg and State of Kentucky, have invented a new and useful Improvement in Dating-Machines, of which the following is a specification.

My present invention relates to dating machines, particularly adapted for use in banks, real estate and loan offices, and more particularly to an apparatus embodying stamping wheels for the years, months, and days of the months, having means advancing a predetermined number of days through a single actuation of a certain portion of the machine for this purpose.

Where a series of notes are made and similarly dated by the use of this machine to shown the time of making, and particularly where the notes are to run thirty, sixty and ninety days and so on, the machine which my invention proposes may be set by a single operation to properly date the time of maturity upon the thirty day note and through subsequent operations to similarly apply the dates of maturity of the longer time notes, each actuation advancing the date printed thirty days.

The means by which I accomplish the above and arrange for a uniform jump of thirty days, allowing for a difference between those months having thirty days and those having thirty-one days and also allowing for the month of February which ordinarily has only twenty-eight days, are clearly shown in the accompanying drawing, in which:—

Figure 1 is a front elevation of my improved dating machine, Fig. 2 is a side elevation thereof, Fig. 3 is an enlarged side elevation of the lower portion thereof, Fig. 4 is a detail vertical section taken through a portion of the machine, taken on the line 4—4 of Fig. 3, and Fig. 5 is a partial face view of the month wheel, taken on line 5—5 of Fig. 4.

Referring now to these figures, the frame A of my improved machine is provided with a handle *a* at its upper end and with spaced depending extensions *a'* and *a''*, journaled through which adjacent their upper inner ends is a shaft B, having a thumb-piece *b* at one end adjacent the frame extension *a''*, and having a solid wheel B' secured upon its opposite end beyond the extension *a'* and

arranged to lie against the outer surface of the latter. As particularly seen in Fig. 2, the outer surface of the wheel B' is provided with a series of radially projecting peripheral pins *b'*, the periphery of the wheel being divided into twelve equal parts and each of the pins *b'* thus equi-distantly spaced corresponds with the month of the year, the pins of the months having thirty-one days being one-third longer than those pins of the months having thirty days, and the pin for the month of February being removable and dispensed with except during a leap year when a pin of one-third of the length of the longest pins is used. The wheel B' is also provided with a series of pins *b''*, extending laterally and outwardly therefrom, each of which pins is located in alinement with one of the pins *b'*. Journaled also transversely between the frame extensions at a point between the ends of the latter and substantially below the shaft B, is a shaft C, upon one end of which outside of the frame extension *a'* is secured a toothed segment C', this shaft being also provided with an arm *c* having a spring finger *c'* at its extremity. The toothed segment C' has thirty-three teeth and is provided with a handle *c''*, by which it may be moved in the arc of a circle until it comes into contact with a stop *a'''*, mounted on the frame extension *a'*.

Journaled through the frame extensions *a'* and *a''* below the shaft C is a shaft D upon one outer end of which is loosely disposed a toothed wheel *d* having thirty-one teeth and in mesh with the toothed segment C', this shaft D also carrying the day wheel D' thereon between the said frame extensions. Secured upon this shaft D adjacent to the gear wheel *d* is a ratchet wheel *d'* with which engage pawls *d''* carried by said gear wheel. Thus movement of the toothed segment C' in the direction, indicated by the arrow in Fig. 2, causes rotation of the day wheel D', as indicated also by an arrow in this figure, the periphery of this day wheel having thirty-one day stamps equi-distantly spaced around its periphery.

Journaled transversely through the outer lower extremities of the frame extensions *a'* and *a''* are a pair of shafts E and F respectively, the shaft E carrying the month wheel E' and the shaft F carrying the year wheel F', and these shafts being in axial alinement and their respective wheels located

upon opposite sides of the day wheel D' and with their peripheral month and year stamps adapted to extend flush with the lowermost portions of the said day wheel.

5 The month wheel E' is provided with a circular series of equi-distantly spaced pins *e* projecting inwardly toward the day wheel and each of which is arranged opposite one of its peripheral month stamps, and the

10 year wheel F' is similarly provided with a plurality of pins *f*. The day wheel D' is provided with a tappet pin extending and movable laterally therethrough at some distance from its peripheral edge, this pin being

15 normally held in such a position as to project sufficiently far toward the month wheel to prevent its contact with the pins *f* of the year wheel, by means of a flat spring *d*⁴ secured to the day wheel and engaging

20 with the tappet pin *d*³ at its free end. Thus the tappet pin *d*³ will strike the upper pin of the series *e* of the month wheel during each revolution of the former and preferably as the thirty-first day stamp passes

25 the printing position at the lowermost portion of the wheel. In order to actuate the year wheel F' when proper, the pin *e* opposite the month of June is provided with a beveled portion *e'* upon which the adjacent end of the tappet pin *d*³ rides, causing

30 longitudinal movement of the said pin laterally through the day wheel against the tension of its spring *d*⁴ so as to thrust its opposite end in engagement with the upper

35 pin of the series *f* of the year wheel F' and thus turn the year wheel one space, this operation of course taking place once during every complete rotation of the month wheel.

40 The several shaft D, E and F are prevented from accidental rotation by means of their pawls and toothed wheels *d*⁵, *e*² and *f*¹ respectively, the pawl in each instance being mounted on the frame, and

45 each of the shafts may be independently adjusted by means of its thumb-piece located at one end thereof. Thus with the day, month and year wheels set to properly and similarly date a series of notes, the day

50 upon which the notes are made, a single actuation of the toothed segment C' in the manner above described, will serve to advance the lowermost printing dates thirty days and the first note may be stamped

55 its date of maturity, supposing it to be a thirty day note by virtue of the fact that the segment C' has its stroke controlled by wheel B' in such manner as to shorten the stroke for those months having 31 days, and lengthen the stroke for the month of

60 February, as above explained. In like manner a second actuation of the toothed segment C' serves to advance the lowermost printing date thirty days more and the next

65 note may be given its date of maturity,

supposing it to be a sixty day note. Supposing now the date of making a note to B is July 15, and the note a thirty day one. Obviously, a full stroke of the segment C' would carry the date wheels to

70 Aug. 15, which would be incorrect, as July has thirty-one days. Owing to the fact, however, that the pin *b'* opposite July on the wheel B' is one third longer than the pins opposite those months having thirty

75 days, the stroke of segment C' will be shortened a distance corresponding to one tooth, so that the date wheels will be carried around to August 14, as is proper. Furthermore, when February comes into consideration, which ordinarily has no pin *b'*, the

80 stroke of the segment will be lengthened in turning the date wheels from a date of this month to a date in March to compensate for the fact that this month has only

85 twenty-eight days. Thus by additional actuations of the toothed segment C', the entire series of notes may be properly dated with their respective dates of maturity, supposing the notes to advance thirty days

90 with respect to one another and while it is apparent that as shown, my dating machine is limited to notes advancing by thirty days through a series, it is to be understood that

95 slight rearrangement of the parts will adapt the same to use in connection with ten, fifteen, and twenty day notes, the operation being, as a whole, substantially the same as that above described.

It is to be understood that the series of

100 pins *b'* of the wheel B' first described, serve to limit the rearward stroke of the toothed segment C' in order that allowance be made for those months having more or less than

105 thirty days, the wheel B' being rotated as each operation takes place by the contact of the spring finger *c'* with the lowermost pin of the series *b*², shaft B being prevented from accidental rotation by its pawl and

110 toothed wheels *b*³.

I claim:—

1. In a dating machine of the character described, the combination of a frame, progressively movable day, month and year

115 stamping wheels rotatable in the frame, an actuating member having connection with the day wheel and movable to actuate the day wheel a distance corresponding to a predetermined number of days, and a member

120 also movable in the frame and having means whereby to limit each stroke of the actuating member.

2. In a dating machine of the character described, the combination of a frame, progressively movable day, month and year

125 stamping wheels rotatable in the frame, an actuating member having connection with the day wheel and movable to actuate the said wheel a distance corresponding to a predetermined number of days, and an ad-

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justable member mounted in the frame and having means to control each stroke of the actuating member, said adjusting member having connection with the day actuating member whereby to cause its adjustment upon each stroke of the latter.

3. In a dating machine of the character described, the combination of a frame, progressively movable day, month and year stamping wheels, rotatable in the frame, a gear wheel having connection with the day wheel, a segment gear in engagement with the gear wheel and having a limited movement in the frame, and a controlling wheel having connection with the segment gear whereby to cause adjustment of the former, and also provided with a plurality of pins of various lengths adapted, to be brought successively in alignment with the segment gear and control the stroke of the latter.

4. In a dating machine of the character described, the combination of a frame, progressively movable day, month and year wheels rotatable in the frame, a gear wheel having connection with the day wheel, a segment gear movable in the frame and in mesh with the gear wheel, an adjustable controlling wheel mounted in the frame and having a plurality of projecting pins of various lengths adapted to be brought suc-

cessively into alignment with the segment gear and control its stroke, the said controlling wheel also having a second set of projecting pins, and an arm carried by the segment gear and adapted to engage a pin of the said second set, whereby to automatically adjust the controlling wheel upon each stroke of the segment gear.

5. In a dating machine of the character described, the combination of a frame, a day stamping wheel rotatable in the frame, month and year stamping wheels rotatable in the frame upon opposite sides of the said day wheel, and each provided with a series of pins projecting inwardly therefrom toward the day wheel, a spring controlled, laterally movable pin carried by the day wheel and normally projecting toward the month wheel whereby to engage a pin of the month wheel and move the latter during each rotation of the day wheel, one of the pins of the month wheel being provided with an inclined portion for engagement with the said day wheel pin whereby to move the latter toward and in engagement with a pin of the year wheel all for the purpose described.

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Witnesses:

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