June 19, 1923.

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1,459,331

## E. R. HERING

MEANS EMPLOYED IN BOOKKEEPING

Filed Aug. 9, 1919

2 Sheets-Sheet 1



Attorney

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June 19, 1923.

E. R. HERING

EMPLOYED IN BOOKKEEPING MEANS

Filed Aug. 9, 1919

2 Sheets-Sheet 2

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nventor E. R. Hering HEnning

1,459,331 Patented June 19, 1923. UNITED STATES PATENT OFFICE.

EMIL R. HERING, OF CLEVELAND, OHIO.

MEANS EMPLOYED IN BOOKKEEPING.

Application filed August 9, 1919. Serial No. 316,283.

To all whom it may concern: ments determined. In a large institution Be it known that I, EMIL R. HERING, a having many accounts the careful examina-

5 have invented certain new and useful Im- siderable inconvenience. One purpose of provements in Means Employed in Book- the present invention is to provide means keeping, of which the following is a speci- for readily indicating in a characteristic fication.

10 keeping done in banks and other similar in- made prior to or after its due date. As a stitutions in connection with transactions matter of added convenience I may provide in which payments are to be made at stated means to indicate the actual date each payintervals. In such transactions it is desir-15 after all the payments have been made such a way as to be readily discernible. whether they have been made in due season or whether there has been delay in making shown specific embodiments of my invensome or all of the required payments.

20 is frequently referred to as the Christmas count which employs one of the usual or Money Club. In this scheme, to which I any preferred form of coupon book. Fig. will apply my invention as a specific ex- 2 shows a simplified card to be held at the ample, the customer, purchaser or depositor bank and Fig. 3 shows a card to be employed is required to make payments to the bank by the depositor in connection with the card 80 25 or other receiving institution at definite of Fig. 2. periods during the year. Payments may be The card shown in Fig. 1 is adapted for made weekly or monthly or at other inter- vertical filing in the bookkeeping cabinet at vals. The payments may all be of the same the bank and to this end has a tab A proamount or each payment may be larger than 30 the preceding payment or they may vary in other respects. Whatever character the main body of the card B carries a mark C to transactions have their details are generally indicate the class of the account. In the definitely determined at the beginning of present instance the marking "\$1.00 Class" the period. For instance one common indicates that each payment is to be \$1.00.90 <sup>35</sup> scheme contemplates the payment into the Below this are lines D for the name and bank of \$1.00 each week for fifty weeks beginning with the last week in December and running to about Christmas time of the E, the amount due on that payment F and next year when the total of the payments to- the total amount including that payment G. 95 gether with interest is to be returned to Between the column indicating the amount 40the depositor. One purpose of such a due and the column indicating the total paid scheme is to inculcate in the depositor habits is a column H headed "Date paid" in which of regularity in saving and in paying. An- is to be stamped the date on which the payother reason for requiring the conditions to ment is made. To the left of the "Date 100

citizen of the United States, residing at tion of a multiplicity of payment dates at the city of Cleveland, in the State of Ohio, the maturity of the account is a very con- 60 manner easily observed the condition of My invention relates particularly to book- each payment as made as to whether it is 65 ment is made and if it is in arrears to indiable and frequently essential to determine cate how much time it may be overdue in 70 In the accompanying drawings I have tion. Figure 1 shows a record card to be One of the common schemes of this sort used in a bank in connection with an ac-75

jecting above its top on which may be en- 85 tered the serial number of the account. The address of the depositor and below this columns indicatng the number of the payment

- <sup>45</sup> be exactly met is that the money must be paid" column are a suitable number of rulreceived by the bank at the appointed time ings five being shown in the present inin order to warrant the bank paying inter-stance. Above the legend "Date paid" is an est on the amount. To this end it is desir- arrow I associated with the words "Weeks able if not essential that there be provided past due." The arrow points to and indi- 105 in the bank means for recording the pay- cates a series of numbers K; "1" being be- $50^{\circ}$ ment as made in such a way as to indicate tween the first pair of rulings to the left of whether the payment is made when due irthe legend "Date paid"; "2" between the secrespective of whether the date is recorded. ond and third rulings; "3" between the third Of course if the date of each payment is and fourth rulings; "4" between the fourth 110 <sup>55</sup> recorded by the bank the record may be and fifth rulings; "5" between the fifth rulexamined and so the timeliness of the paying and the edge of the card. In addition

to this at the lower right hand corner of the that payment was made when due and concard is an indication L of the total of the sequently the date Dec. 28 as indicated at O payments made and a blank space M in is stamped in column H under the words which may be entered the amount of inter- "Date paid" and to the right of the rulings. 5 est accrued and the amount for which a check should be drawn to settle the account. In the drawing I have shown to the left of this an instruction note N reading "All dates are posted in column printed Date paid'. 10 The payments made when due or before should be posted over to the right, if payment is one week past due post a little to the left so beginning of date comes under Figure 1. Two weeks past due is posted more 15 to the left under column 2 etc. This will show at any time number of payments past due and time." The coupon books held by the depositor indicate the date by which each of the various payments should be made and 20 for the series of accounts this date is well known to the bookkeeper. If the payments are made before they are overdue the date of their payment will be marked or stamped under the words "Date paid" and to the 25 right of the rulings. If the payment is not made when due but is delayed for not exceeding one week the date when paid will be similarly marked on the card but instead of being placed under the words "Date paid" 30 it will be placed to the left so as to cover a part of the space between the first and second rulings to the left and so show in the column headed "1" to which the "Weeks past due" arrow points. Similarly if the 35 payment is two weeks overdue the entry date will appear in the column headed "2"; if three weeks overdue it will appear in the column headed "3", if four weeks overdue it will appear in the column headed "4"; if 40 five weeks overdue it will appear in the column headed "5". Any suitable number of these columns may be provided and I do not limit myself to as few as the five columns here shown nor is it essential that as many as 45 five be employed. For purposes of illustration I have made some entries upon the card shown in Fig. 1. It is assumed that this card is to indicate the condition of an account in which the first 50 payment is to be made during the week beginning December 27; the second payment to be made during the week beginning January 3; the third payment to be made during

Although the second payment was due dur- 70 ing the week beginning January 3 and the third payment due during the week beginning January 10 those payments were not made until January 18 when \$3.00 was paid to cover the second, third and fourth pay- 75 ments. On January 18 the second payment was two weeks overdue so that date Jan. 18 is stamped as indicated at P beginning between the rulings under "2" to which the "Weeks past due" arrow I points. On Janu- 80 ary 18 the third payment was one week overdue and to indicate this the date Jan. 18 is so stamped at Q as to show in the column headed "1" to which the "Weeks past due" arrow I points. The fourth payment 85 being due during the week beginning January 17 was not past due when it was paid on the 18th of January and consequently the date stamp Jan. 18 is placed at R under the words "Date paid" and to the right of 90 the ruling. The fifth payment being due during the week of January 24, was seasonably paid on January 24 and consequently the date stamp January 24 is placed at S to the right of the ruling and under 95 the words "Date paid". The sixth payment being due during the week of January 31 was one week past due on the 7th of February when the payment was made consequently the date Feb. 7 is so placed at T as  $^{100}$ to show between the first and second rulings to the left and under the figure "1" indicated by the "Weeks past due" arrow I. On February 9 the seventh payment was made and since this payment was due dur- 105 ing the week beginning February 7 it was seasonably made as indicated by the date stamp Feb. 9 at U which was placed to the right of the ruling and under the words "Date paid". An inspection of this card 110 without reference to a calendar and without reference to the specific dates of the various payments and without reference to specific dates when the various payments were due shows that one payment was made when 115 two weeks past due; two payments were made when one week past due and four payments were made when due. This informa-

the week beginning January 10; the fourth tion is obtained readily and promptly by 55 payment to be made during the week be- observing that there is one date mark, 120 ginning January 17; the fifth payment to be namely January 18 at P, which encroaches upon the column headed "2" and two dates made during the week beginning January namely Jan. 18 at Q and Feb. 7 at T which 24; the sixth payment to be made during the encroach upon the column headed "1" to week beginning January 31; and the seventh which the "Weeks past due" arrow leads. 125 payment to be made during the week begin-The four dates, namely Dec. 28 at O, Jan. 18 ning February 7 and so on throughout the at R, Jan. 24 at S and Feb. 9 at U which do year. In the particular account recorded not encroach upon the rulings to the left inon the card the first payment was made on dicate that the four payments represented by December 28. The 28th of December being them were made when they were not past due. 130 65 within the week beginning December 27

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In Figures 2 and 3 I have shown another AA marked "When due" and on a line corapplication of my invention. In this scheme responding to the date on which the pay-I provide two cards, one shown in Fig. 2 ment is made. When the payment is past marked "Bank card" B<sup>1</sup> to be held in the due at the time it is made the cards will 5 bank as its record. The card B<sup>2</sup> shown in Fig. 3 is given to the depositor and repre-marked "Past due". The specific cards sents his receipts for payments. In this shown in Figs. 2 and 3 indicate in column scheme the two cards are identical in every respect except that one has printed on it 10 the two words "Bank card". The two cards payment during the week beginning Janu- 75 may be superposed one on the other and the ary 3; the third payment during the week printing or marking on one will exactly beginning January 10; the fourth payment overlie the corresponding marking or print- during the week beginning January 17, the ing on the other. The operation of this fifth payment during the week beginning 15 scheme requires the depositor to present this January 24, the sixth payment during the 80 card at the bank when he makes a payment week beginning January 31, and the seventh and in order to record the payment the de- payment during the week beginning Februpositor's card is placed over the bank card ary 7. As indicated in Fig. 1 the first seven and then the two are simultaneously payments were made on the following dates 20 punched preferably in a characteristic way respectively: December 28, January 18, 85 in the proper place to indicate the payment. January 18, January 18, January 24, Febru-The particular scheme to which the specific ary 7 and February 9. When the first paycards of Figs. 2 and 3 relate calls for pay-ment was made the bank clerk having the ment of two dollars each week. The card cards of Figs. 2 and 3 before him observed 25 at the bottom and in the center bears the that it was due during the week of Decem-90 name or imprint of the bank at V and im- ber 27. Being only December 28 then he mediately above that are lines D for the name and address of the depositor above which may be printed the amount and class 30 of the account. At the extreme top of the card a serial number W is placed for purpose of identification. The card carries a column X headed "Due week of" in which tively in the weeks beginning January 3 and are the various dates to indicate when the 10. He accordingly punched the cards of 35 payments are due. Another column G head- Figs. 2 and 3 at CC and DD under the 100 ed "Total paid" carries a series of numbers column Z marked "Past due" to indicate the each \$2.00 larger than the one next above second and third payments but the fourth it to indicate the total amount due or paid payment being made within the week bein on any date. Between these I have pro-ginning January 17 was indicated by a 40 vided two columns over which at Y is the punch EE under the column AA marked 105 general legend "Paid". One of these two "When due". In like manner the fifth paycolumns Z has a sub-title "Past due" and ment due January 24 was punched at FF the other AA a sub-title "When due". For in the column AA marked "When due", the convenience I have placed \$2.00 at each date sixth payment being made on February 7 45 in one column to indicate the amount due which is after the week beginning January 110 at that time and the other column contains 31, is represented by a punch GG in the merely a series of dots. Of course both columns might have numbers in them or both might have dots in them or both might be 50 left blank although the arrangement shown is a preferred and convenient arrangement. In Figs. 2 and 3 I have indicated payments made on the same dates as those in Fig. 1. The present card does not provide 55 for indicating the actual date on which the \$14.00 has been paid made up of four timely 120 payment was made but does indicate payments indicated by punches BB, EE, FF, whether the payment was made when due and HH in the column AA marked "When or when past due. It is frequently suffi- due" and three tardy payments indicated by cient to indicate that the payment is past punches CC, DD and GG in the column Z due without indicating whether it is one, marked "Past due". Payments will pro- 125 60 two, three or four weeks past due. When ceed throughout the fifty weeks or other a payment is made before it is past due the period before the maturity of the scheme, in two cards after being superposed are simul- each instance the timeliness or tardiness of taneously marked, preferably by a char- the payment being indicated by a punch in 65 acteristic punch of the bank, in the column the appropriate column. An inspection of 130

be similarly punched but in the column Z 70 X that the first payment is due during the week beginning December 27; the second properly punched the first "2.00" under the column AA marked "When due" at BB. When the second, third and fourth payments were made on January 18 the bank clerk 95 observed that the second and third payments were overdue since they were due respeccolumn Z headed "Past due", and the seventh payment made two days later but within the week beginning February 7 is indicated by a punch HH under the column 115 AA marked "When due". An inspection of the bank card of Fig. 2 (or of the depositor's card of Fig. 3) therefore quite readily shows in column G that

## the card at the end of the period will readily and conclusively show by the punch mark in the "Past due" column Z the number of tardy payments so that the clerk preparing 5 to pay the bank obligation at maturity may readily determine whether the depositor has earned interest or whether the number of

tardy payments has been so great as to deprive him of some or all of the interest 10 generally paid.

My invention is not limited to the specific

scribed in this specification and the following claim is to be read with this understanding.

I claim as my invention:

A credit card, an appropriately designated column thereon to receive a mark to indicate a timely payment, a plurality of columns adjacent thereto each appropriately 20 designated to receive a portion of the mark to indicate a tardy payment and its degree of tardiness.

details illustrated in the drawings or de-

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