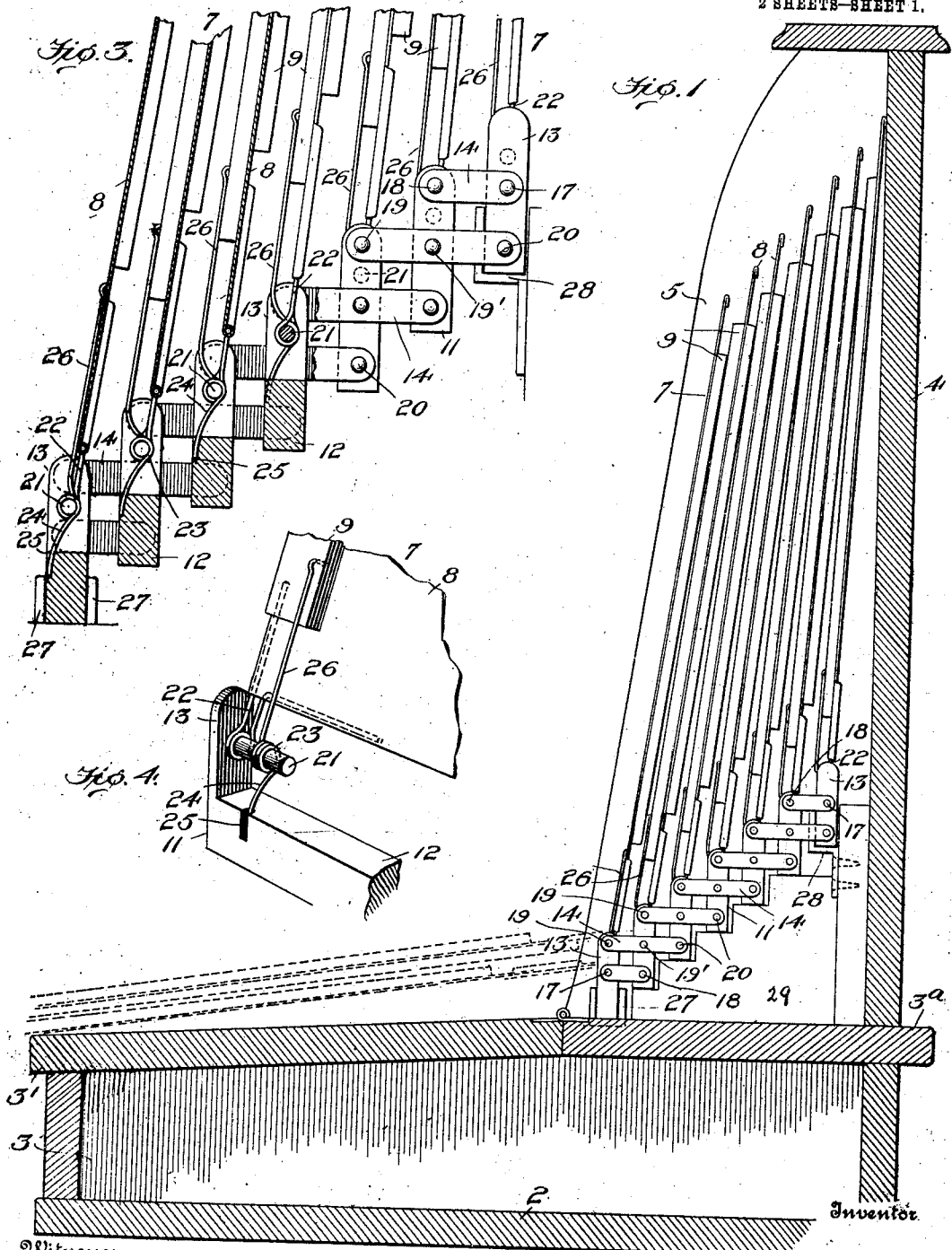


1,055,070.

Patented Mar. 4, 1913.

2 SHEETS—SHEET 1.



Witnesses
Edwin L. Bradford
C. C. Wright

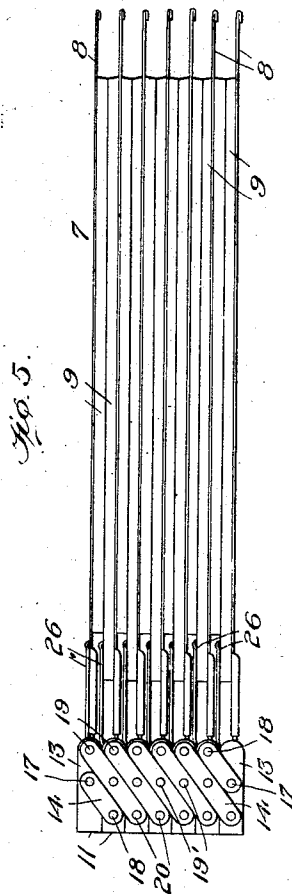
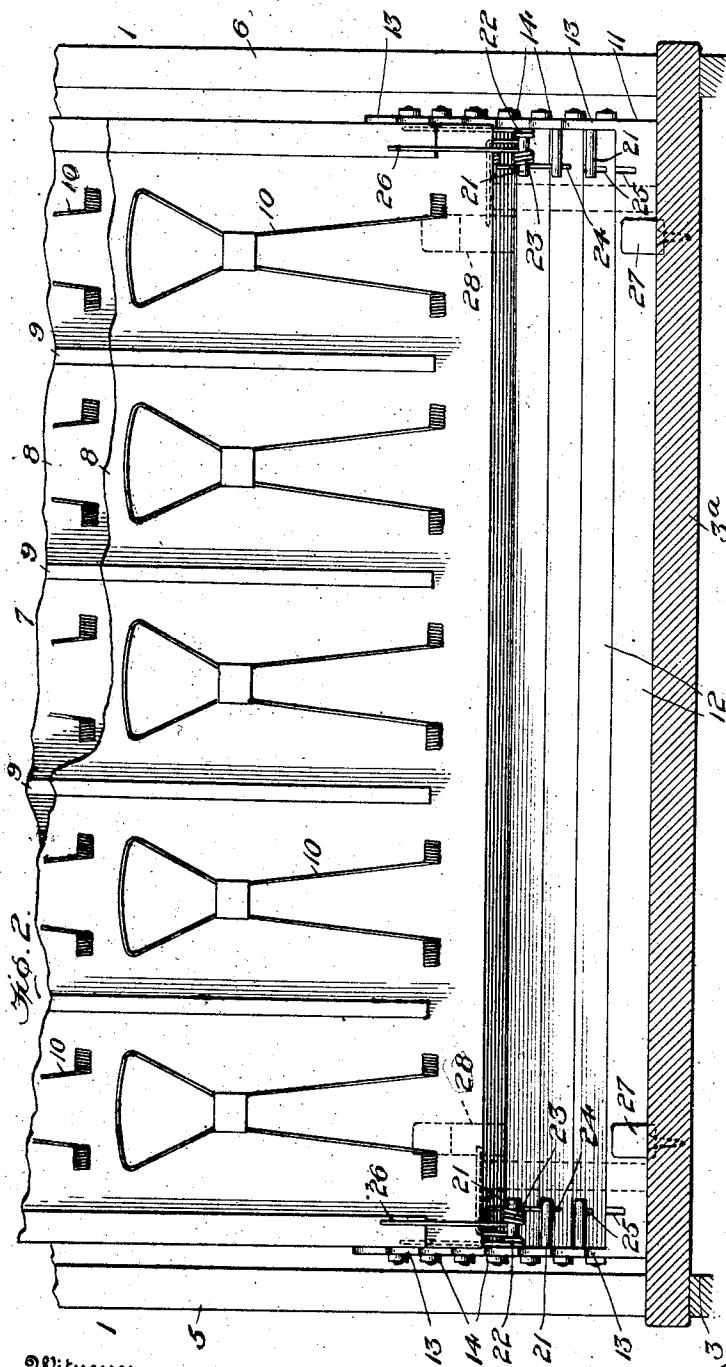
By

Rollin D. Pardee
Edward R. Alexander
Attorney

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2 SHEETS—SHEET 2.



Witnesses.

Edwin L. Bradford
C. C. Wright

By

Inventor
Rollin D. Pardee
Edward R. Alexander
Attorney

UNITED STATES PATENT OFFICE.

ROLLIN D. PARDEE, OF GARRETTSVILLE, OHIO, ASSIGNOR TO THE McCASKEY REGISTER COMPANY, OF ALLIANCE, OHIO, A CORPORATION OF OHIO.

ACCOUNT-REGISTER.

1,055,070.

Specification of Letters Patent.

Patented Mar. 4, 1913.

Application filed June 16, 1908. Serial No. 438,878.

To all whom it may concern:

Be it known that I, ROLLIN D. PARDEE, a citizen of the United States, residing at Garrettsville, in the county of Portage and State of Ohio, have invented certain new and useful Improvements in Account-Registers, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to improvements in account registers, more particularly to that class of account registers in which there is a plurality of bill carrying frames or leaves, each pivotally mounted to swing from a vertical to a substantially horizontal position and vice versa.

The objects of my invention will be obvious from the disclosure and description of an account register embodying it, which I have herein chosen for illustration.

Figure 1 is a vertical sectional view through the casing of an account register embodying my invention, showing the bill carrying frames in side elevation. Fig. 2 is a view partially in section and partially in front elevation of a portion of the said account register. Fig. 3 is a view partly in section and partly in side elevation showing the bill carrying frames and their supports on a larger scale. Fig. 4 is a detail perspective view. Fig. 5 shows the bill carrying frames removed from the casing and in compact form for storage.

In the drawings—1 represents as an entirety, a casing or housing. As this casing or housing, in itself, forms no part of my invention, it may be of any well known construction. For the purpose of illustration, I have shown it comprising a base 2 on which is arranged a desk-like structure 3, having a hinged top 3', arranged to permit access to the interior of the desk-like part. The rear part of the top of the desk at 3^a is preferably stationary and forms a supporting base for the bill carrying frames and their supports. The back wall 4 of the casing extends vertically upward for some distance above the top of the desk like part of the casing, as also do the side walls 5 and 6.

7, 7, indicate bill carrying frames or leaves. These may be of any suitable and well known construction, and for the purpose of illustration, are shown to be similar to those disclosed in my Patent No. 846,136, patented March 5, 1907. The front and rear

surfaces of the sheet or plate 8 of each one of these frames, are preferably divided by rubbing strips or ribs 9 into a series of vertically disposed sales slip-receiving sections. In each of these sections is preferably arranged, one above the other, a pair of spring clips 10, which may be suitably held in position on the frame in any well known manner.

Each of the bill carrying frames 7 is preferably independently mounted upon a support 11, comprising a cross or bottom bar 12, having secured to its opposite ends upwardly extending arms 13. The arms 13 and the bar 12 may be integrally formed, if desired.

14 indicates links for pivotally connecting the cross bars of the bill frame supports 11 together. The two end links of each set are shorter than the intermediate links, and each is pivotally connected at 17, 18, to adjacent arms 13. Each intermediate link is pivotally connected at its upper end to the upper end of one of the arms 13 as indicated at 19; to the next arm 13 in the series intermediate of its ends, as indicated at 19', and to the lower end of the next arm 13 in the series as indicated at 20, these links 14 forming with the said arms 13 a lazy tongs connection between the bars 12. This lazy tongs connection permits the lateral and vertical movement of the base bars of the series relative to each other, at the same time insuring the equal relative movement of the supports as entireties.

The bill carrying frames 7 may be pivotally mounted upon their respective supports 11 in any suitable manner, and for this purpose I have shown each of the arms 13 provided with an inwardly turned pivot or stud 21, similar in construction to those shown in my aforesaid patent. These studs may be formed separately or integrally with the arms 13 of the supports, as desired.

Each of the bill carrying frames is mounted on the two opposed studs 21, carried by one of the supports 11. This mounting I have, for illustration, shown to be the same as that disclosed in my aforesaid patent, namely, at each lower corner of a bill holding frame is arranged a coiled wire 22, the coil of which is arranged to surround one of the pivots 21 on a support 11; from the said coil one end of the wire extends substantially horizontally and is secured to

the horizontal edge of the adjacent lower corner of the leaf, and the other end extends vertically and is secured to the vertical edge of the said corner of the leaf.

- 5 In most instances it is desirable to suitably counterbalance the leaves to facilitate their operation in the casing. For this purpose, and for illustration, each bill holding frame or leaf 7 is provided with a pair
10 of counterbalance springs 23, one arranged at either side of the frame and having a coiled portion surrounding the pivot 21 on which the adjacent corner of the bill holding frame is mounted. Each of these
15 counterbalance springs has one end extending downwardly as indicated at 24 and seated in a recess 25 in the top of the adjacent bar 12, and an upwardly extending arm 26 normally pressing against the front
20 wall of the frame, the construction being similar to that shown in my aforesaid patent.

- In order to properly position and hold the bill carrying frames and their supports
25 11 in operative position and relation in the casing 1, I have arranged on the base 3^a, a plurality of bifurcated studs or rests 27, each adapted to receive between its arms the bar 12 of the front support 11 of the
30 series. From the rear wall 4 of the frame extend forwardly a plurality of hooks or holders 28 adapted to receive and hold elevated the rearmost support 11 of the series. If desired, each of the supports 11 may
35 be independently supported from the base 3^a, although this is not absolutely essential, but for the purpose of illustration I have shown a pair of stepped rests 29, one arranged at either side of the base 3^a, and
40 upon the corresponding steps of which, when the front and rear supports 11 are arranged in position in the frame, the opposite ends of the intermediate bars 12 of the series rest respectively.

- 45 The operation of a register embodying my invention will be readily understood.

- When the supports for the bill holding frames and the said frames themselves are arranged in operative position within the
50 casing 1, the upper ends of the bill holding frames appear one above the other in ascending series so as to expose freely to view the index tabs not shown at the upper edges of the frames and sufficient distance
55 separates the lower pivoted ends of adjacent bill holding frames to insure the ready and free operation of each and all of the said frames in swinging from a vertical to a horizontal position or vice versa. When
60 it is desired to remove the frames from the casing for the purpose of storing them in a safe or vault for safe keeping, all that is necessary is to elevate the supports 11 until the lowermost one and the uppermost one
65 are free from their respective supporting

and holding means, then all of the bill holding frames 7 in the series and their supports 11 may be moved relative to each other, until they bear a relation shown in Fig. 5, because of the lazy tongs nature of the connection between the supports. When thus arranged in compact form, the bill holding frames and their supports occupy considerably less space than they do when arranged in operative relation to each other within the frame.

To those skilled in the art of making account registers, many alterations in construction and widely differing embodiments and applications of my invention will suggest themselves, without departing from the spirit and scope thereof.

My disclosures and the description herein are purely illustrative, and are not intended to be in any sense limiting.

What I claim is:

1. An account register comprising a series of bill holding frames, pivots for said frames at the lower ends thereof, and means connecting adjacent pivots of adjoining leaves together, said means being constructed to permit bodily movement of said bill holding frames both laterally and longitudinally relatively to each other and the oscillation of said frames about the axes of their respective pivots, singly or in groups.

2. An account register comprising a plurality of bill holding frames having pivotal mountings for each frame one behind the other in series, and means connecting each of said frames to the adjacent frames in the series to permit the bodily lateral and longitudinal movements of the said bill holding frames relatively to each other as well as their oscillation about the axes of their respective pivots.

3. An account register comprising a series of pivotally mounted bill holding frames, and means connecting each of said frames to the adjacent frames in the series to permit the relative lateral and longitudinal movements of the said bill holding frames, as well as their oscillation about the axes of their respective pivots independently of their relative lateral and longitudinal movements.

4. An account register comprising a series of pivotally mounted bill holding frames, and means connecting each of said frames to the adjacent frames in the series to permit the relative lateral and longitudinal movements of the said bill holding frames, as well as their oscillation about the axes of their respective pivots independently of their relative lateral and longitudinal movements and independently of each other.

5. An account register comprising sets of lazy tongs, and a plurality of bill holding frames pivoted upon said lazy tongs and connected thereby in series, whereby bodily

lateral and longitudinal movements of said bill holding frames relatively to each other are permitted and the free end of each frame is free to oscillate about the axis of its pivots.

6. An account register comprising a series of bill holding frames, lazy tongs connections at the sides of said frames, pivotal connections between the sides of said frames and adjacent elements of said lazy tongs to permit the relative lateral and longitudinal movement of the said bill holding frames and their oscillation about the axes of their respective pivots, a casing, and means for supporting said bill holding frames in the casing with their upper edges exposed, one above the other from front to rear of the series.

7. In a filing appliance, the combination of a plurality of frames, sets of lazy-tongs arranged at the opposite sides of said frames, means for pivotally supporting said frames on the sets of lazy-tongs to swing independently of each other or in groups, and means for connecting the sets of lazy-tongs together.

8. In a filing appliance, the combination of a plurality of frames, sets of lazy tongs arranged at the opposite sides of said frames, means for pivotally supporting said frames on the sets of lazy tongs to swing independently of each other or in groups, means for connecting the sets of lazy tongs together, a casing, and means within the casing for supporting said connecting means.

9. The combination of a series of file leaves provided with means for retaining papers thereon, and lazy-tongs arranged at the opposite side edges of the leaves and to which the leaves are pivoted at one end, whereby the lazy-tongs constitute hinge connections between the leaves and permit the leaves to be adjusted toward and from each other, substantially as set forth.

10. The combination of a series of file leaves provided with means for retaining papers thereon, and lazy-tongs to which said leaves are directly pivoted at one end and which directly connect the leaves, whereby the leaves can swing relative to each other and can also be adjusted toward and from each other, substantially as set forth.

11. The combination of a cabinet having an inclined leaf support, a series of file leaves provided with means for retaining

papers thereon, lazy-tongs to which the leaves are directly pivoted and which directly connect the leaves, and means for retaining the leaves on said inclined support, substantially as set forth.

12. The combination of a series of swingable bill holding frames, sets of links arranged at the opposite sides of the frames, the links of each set being pivotally connected together and movable in a plane parallel to the plane of movement of said frames, and pivotal connections between each of said frames at either side thereof and the adjacent links of said sets of links, the said links permitting bodily lateral movements of the frames relatively to each other and the pivot connections between the frames and the links permitting swinging movement of the frames independently of each other and of the movement of the links.

13. In a device of the character described, the combination of a series of frames provided with means for retaining papers thereon, and means for connecting the frames together and permitting them to be adjusted toward and from each other, the said means comprising links arranged at the opposite sides of the frames and movable relatively to each other and pivots between the frames and said links permitting said frames to swing relatively to each other, and independently of each other.

14. An account register comprising a plurality of bill holding frames arrangeable for operation with their free ends in stepped relation to each other, and devices pivotally supporting and connecting adjacent frames together in a series in such manner that said frames are free to oscillate about the axes of their respective pivots singly or in groups, the said devices being constructed to permit bodily lateral and longitudinal movements of the frames relatively to each other, whereby said frames may be bodily separated from each other and arranged with their free ends in stepped relation for operation or may be arranged in a compact rectangular form.

In testimony whereof I affix my signature, in the presence of two witnesses.

ROLLIN D. PARDEE.

Witnesses:

WASHINGTON HYDE,
PERRY A. McCASKEY.

It is hereby certified that in Letters Patent No. 1,055,070, granted March 4, 1913, upon the application of Rollin D. Pardee, of Garrettsville, Ohio, for an improvement in "Account-Registers," an error appears in the printed specification requiring correction as follows: Page 3, line 12, for the word "movement" read *movements*; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 15th day of April, A. D., 1913.

[SEAL.]

C. C. BILLINGS,

Acting Commissioner of Patents.