(No Model.) 2 Sheets—Sheet 1.

S. SHOUP.

AUTOGRAPHIC REGISTER.

No. 524,000. Patented Aug. 7, 1894

FIG. 1.

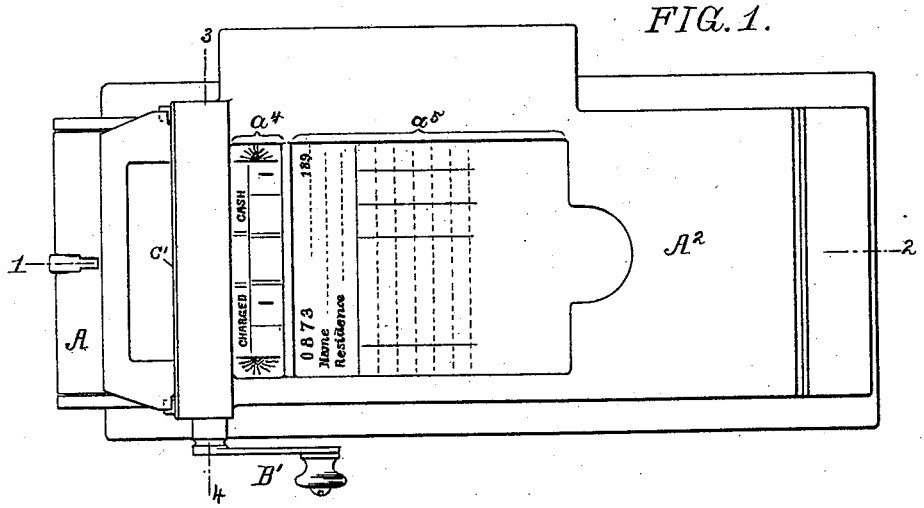


FIG. 2.

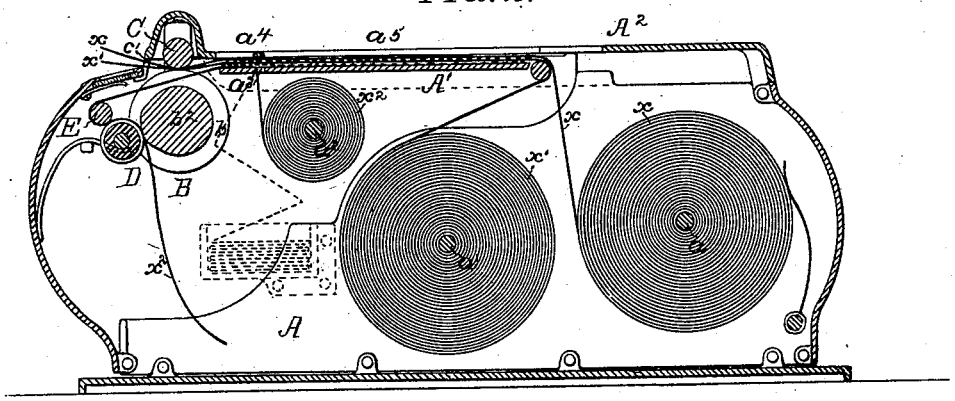
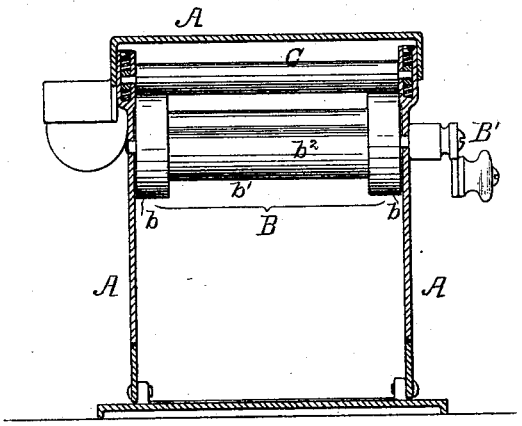


FIG. 3.



Witnesses:
W. D. Goodwin
R. Schleicher

Inventor
Samuel Shoup
by his Attorneys
Howson & Howson

(No Model.) 2 Sheets—Sheet 2.

S. SHOUP.

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FIG. 5.

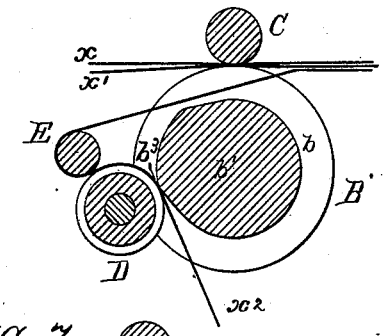


FIG. 6.

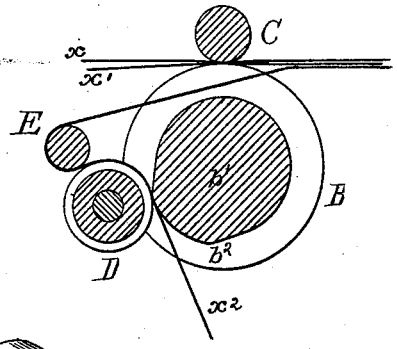


FIG. 7.

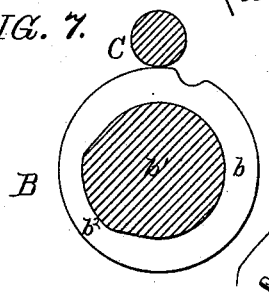


FIG. 4.

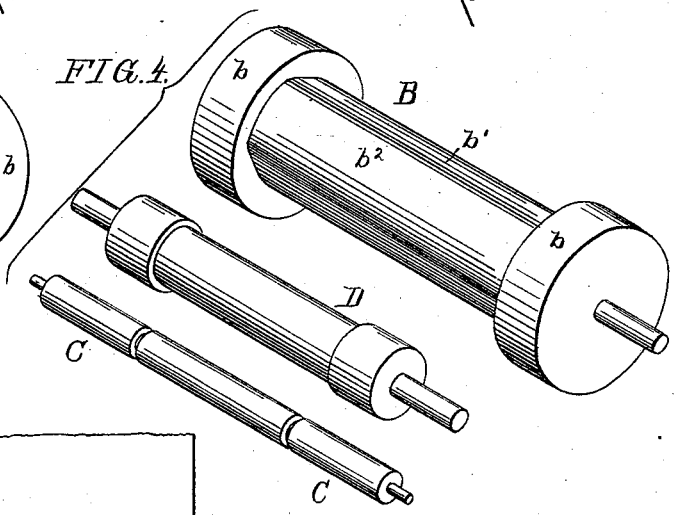


FIG. 9.

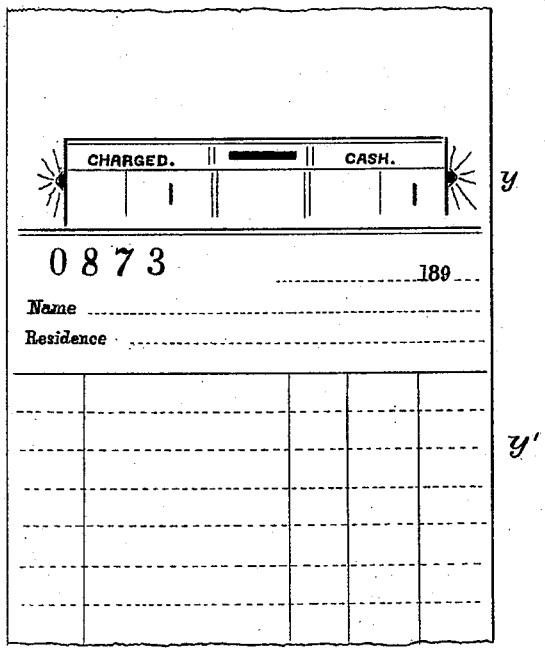
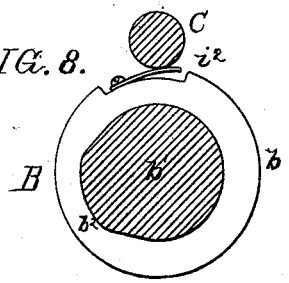


FIG. 8.



Witnesses:
F. D. Goodwin
R. Schleicher.

Inventor:
Samuel Shoup
by his Attorneys
Howson & Howson

UNITED STATES PATENT OFFICE.

SAMUEL SHOUP, OF CLIFTON HEIGHTS, PENNSYLVANIA.

AUTOGRAPHIC REGISTER.

SPECIFICATION forming part of Letters Patent No. 524,000, dated August 7, 1894.

Application filed June 6, 1893. Serial No. 476,751. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL SHOUP, a citizen of the United States, and a resident of Clifton Heights, Delaware county, Pennsylvania, have invented certain Improvements in Autographic Registers, of which the following is a specification.

The object of my invention is to so construct an autographic register that the record paper will be fed by the machine during a portion only of the travel of the issue slip.

A further object of my invention is to so construct the machine that the proper distance of feed of the paper will be indicated to the operator, through the handle.

In the accompanying drawings:—Figure 1, is a plan view of my improved machine. Fig. 2, is a longitudinal sectional view on the line 1—2, Fig. 1. Fig. 3, is a transverse sectional view on the line 3—4, Fig. 1. Fig. 4, is a detached perspective view of the feed rolls. Figs. 5 and 6, are diagrams illustrating operations of the machine. Figs. 7 and 8, are views of modifications; and Fig. 9, is a view of one form of sales slip.

A is the frame of the machine in which are mounted the spindles a, a' and a^2 carrying the rolls of paper. The roll x contains the issue slips, the roll x', the cashier's slips and the roll x^2 the record slips. I would state here that the record slip is retained in the machine while the slip x is handed to the customer and the slip x' is sent to the cashier.

B and C are the main feed rolls and on the spindle of the roll B is the operating handle B'. Directly back of the feed rolls is the table A', over which the paper passes. The record paper in this instance, passes over only a portion of the table entering through a slot a^3 as in this instance a record is only kept of a portion of the contents of the sales slip. Pivoted above the table is the cover plate A^2, having two openings a^4, a^5, in the present instance directly above the table, so that the salesman can write upon the paper; the smaller opening a^4 being the check space and the larger opening a^5 being the main entry space.

At one side of the frame is the case for the transfer papers which extend across the machine between the sheets of record paper.

The lower feed roll B is formed as shown in Fig. 4, being cut away at the center, so that the flanges b b feed the sheets x x' the sheets being passed between the flanges b b and the upper feed roll C, mounted in suitable bearings in the frame of the machine. The central portion b' of the lower feed roll B is in the form of a cam, the face b^2 of this cam being concentric, and the extent of this face will indicate the amount of feed that will be given the record paper x^2.

Situated at one side of the feed roll B and acting in conjunction with the cam is a roll D mounted in suitable bearings in the frame A. This roll is preferably covered with yielding material, such as soft rubber, and is cut away at the center, so that the record paper will be fed by the rolls engaging the edges of the paper, as I find that the paper will feed more easily by this method than if engaged the full width.

Bearing against the roll D is a detent roll or bar E between which and the roll D the record paper passes before passing between the main feed roll B and the roll D, so that when the cam face is clear of the paper the rolls D and E will hold the paper in position until the cam face again comes in contact with the paper feeding it the proper distance.

The record paper passes into the body of the machine and simply accumulates, not being rolled upon a receiving roll, there is sufficient space under the feed rolls to allow sufficient paper to accumulate for the day's sales.

In some instances I may use a flat record sheet, as shown by dotted lines in Fig. 2, in which case the paper will automatically fold after it leaves the feed rolls, as fully described and claimed in an application filed by me even date herewith, and the issue slips may be folded instead of rolled if desired depending altogether upon the character of the machine employed.

One complete revolution of the feed roll B will project the issue paper from the machine the proper distance and the issue paper is then torn off on the line of the knife edge c'. The proper distance of feed is indicated by the edge b^3 of the cam coming in contact with the roll D, as shown in Fig. 5; the edge striking the roll and indicating to the operator

through the handle that the proper point is reached, as it will be understood that a very little jar will indicate to the operator when the proper point of feed is reached. As a modification of this arrangement the feeding portion of the main roll B may be notched as shown in Fig. 7, so that a feed roll C will drop into it or the feed roll C may be notched when the diameter is such that one revolution will give the proper feed as shown.

In Fig. 8, I have shown each flange of the feed roll cut away and a flat spring inserted so as to keep the paper against the feed roll C, the edge i^2 of the flange when it reaches the roll C will indicate to the operator through the handle when to stop turning.

In Fig. 9, I have shown one form of sales slip, the upper portion y giving the record of sales and the salesman and the date of sale, while the body y' is arranged with the name, purchase, date and the articles sold itemized, together with the amount, but it will be understood that other forms of sales slip may be used without departing from my invention.

The above described apparatus is very simple in construction and not likely to get out of order and the record slips can be fed the proper distance.

I claim as my invention—

1. The combination in an autographic register, of the table, the guides for directing the issue and record paper one above the other over the table, feeding mechanism for traversing the issue slip through the machine, with a cam secured to or forming part of the said feeding mechanism for feeding the record paper during a portion of the travel of the issue paper, substantially as described.

2. The combination in an autographic register, of the frame for carrying the paper, the feed rolls for feeding the issue slip paper, a cam secured to or forming part of one of the feed rolls and means for acting therewith for feeding the record paper during part of the revolution of said feed roll, substantially as described.

3. The combination in an autographic register, of the feed rolls for feeding the issue paper through the machine, a cam on one of said feed rolls, a roller engaging with the raised portion of the cam, said cam adapted to feed the record paper during a portion of the revolution of the feed roll for the issue paper, substantially as described.

4. The combination in an autographic register, of the feed rolls for the issue paper, one of said feed rolls being cut away at the center forming side contacts by which the issue paper is fed through the machine, with a cam forming part of or secured to said roll and means acting therewith for feeding the record paper during a portion of the feed of the issue paper, substantially as specified.

5. The combination in an autographic register, of the feed rolls, one of said rolls being cut away at the center forming side contacts by which the issue paper is fed through the machine, a cam on the central portion of the cut away roll, and a roller bearing against the raised portion of the cam between which and the cam the record paper is fed during a portion of the feed of the issue paper, substantially as described.

6. The combination in an autographic register, of the feeding mechanism for the issue paper, a cam, a roller bearing against the raised portion of the cam for feeding the record paper during a portion of the feed of the issue paper, and mechanism for retaining the record paper in its adjusted position while the cam is out of action, substantially as described.

7. The combination of the feeding rollers for the issue paper, a cam on one of the feed rollers, a roll bearing upon the raised portion of the cam, and a bar or roller bearing against the said bearing roller at all times so that the record paper will be secured in its adjusted position after being moved by the cam, substantially as described.

8. The combination of the feed rolls for the issue paper, the cam on one of said feed rolls, a presser roll having a cut away center between which and the cam the record paper passes and by which it will be fed by the cam engaging each edge of the paper, substantially as described.

9. The combination in an autographic register, of the upper and lower feed rolls, one of said rolls being slightly irregular at one or more points of the revolution so as to indicate to the operator through the handle when the paper has been fed the proper distance, substantially as described.

10. The combination of the feed rolls for feeding the issue paper through the machine, a projection on said feed rolls and a yielding contact so that when the said raised portion strikes the contact it will indicate through the handle to the operator the proper distance of feed, substantially as described.

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

SAMUEL SHOUP.

Witnesses:
HENRY HOWSON,
JOSEPH H. KLEIN.