

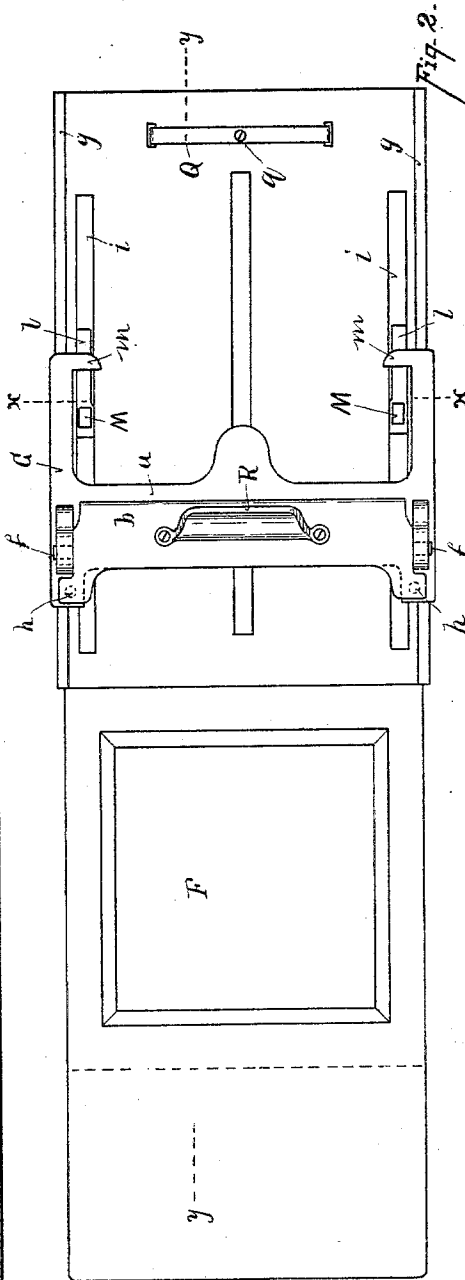
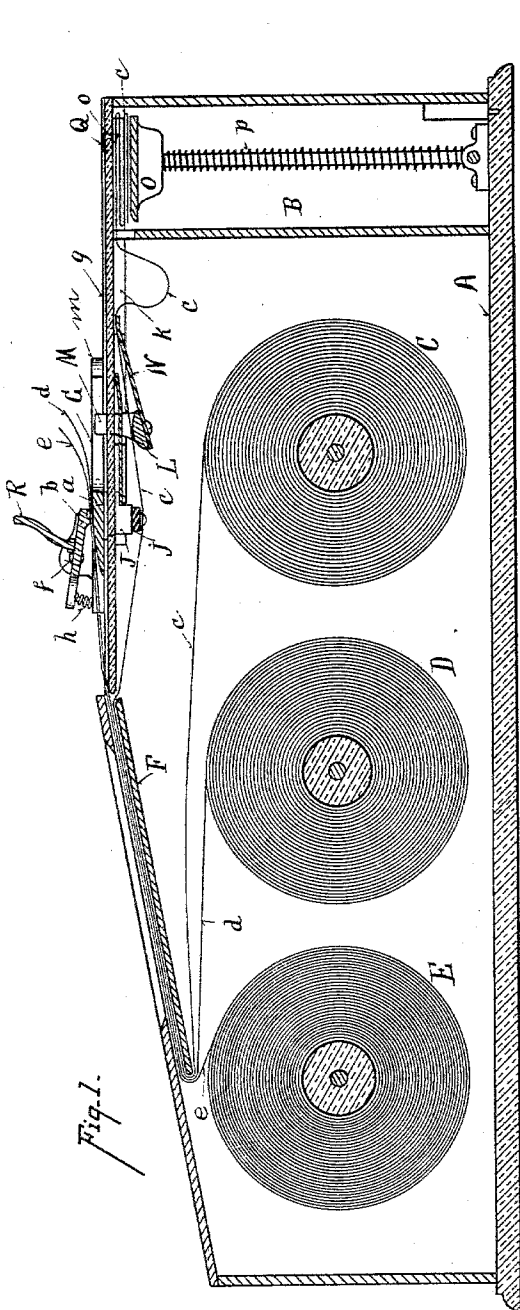
(No Model.)

2 Sheets—Sheet 1.

W. B. PRESTON.
AUTOGRAPHIC REGISTER.

No. 566,620.

Patented Aug. 25, 1896.



Witnesses

C. W. Miles
Oliver B. T. Kaiser.

Inventor

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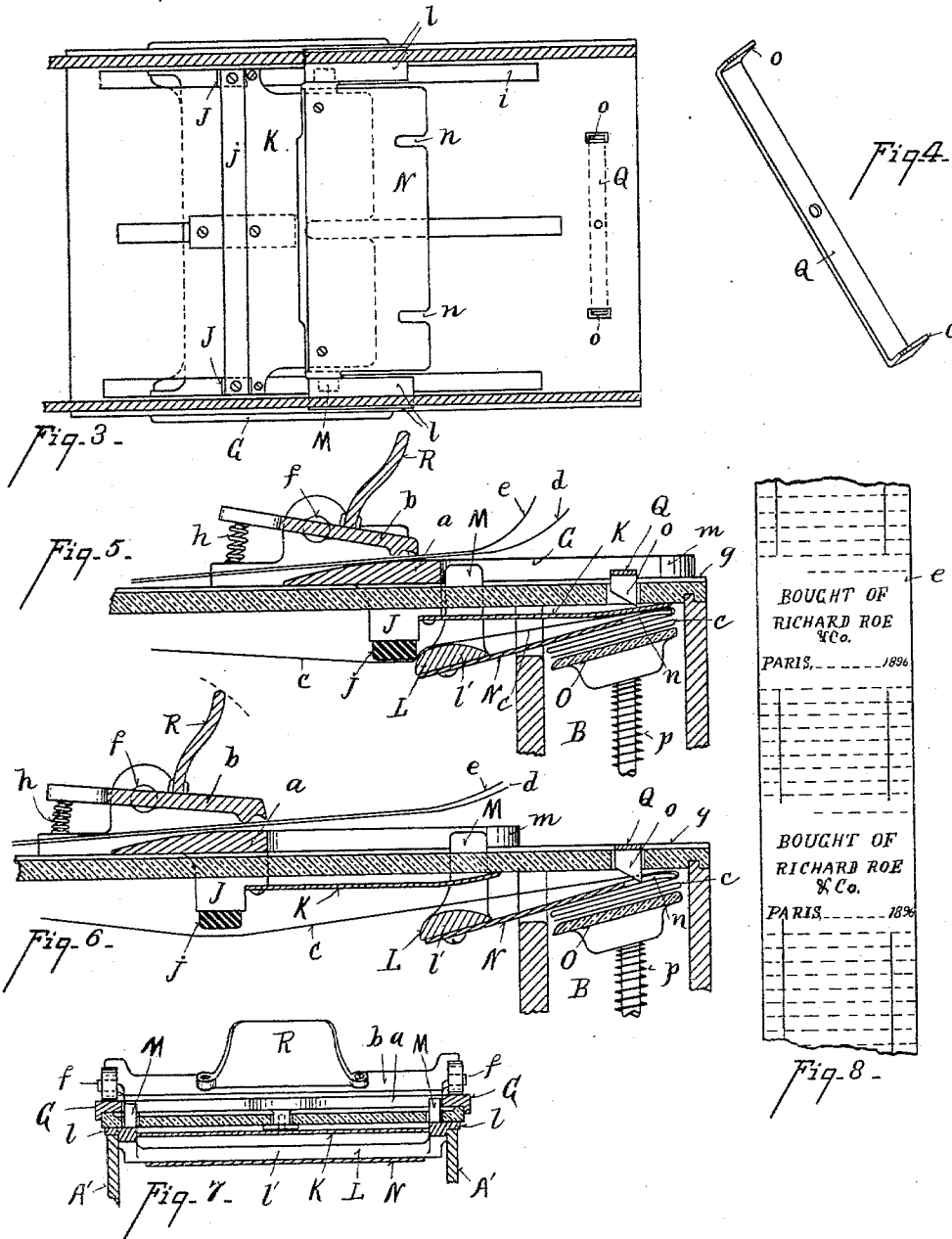
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By M. D. Royce
Attorneys

UNITED STATES PATENT OFFICE.

WILLIARD B. PRESTON, OF CINCINNATI, OHIO, ASSIGNOR OF ONE-HALF TO
FRANK A. FOSTER, OF SAME PLACE.

AUTOGRAPHIC REGISTER.

SPECIFICATION forming part of Letters Patent No. 566,620, dated August 25, 1896.

Application filed April 30, 1896. Serial No. 589,725. (No model.)

To all whom it may concern:

Be it known that I, WILLIARD B. PRESTON, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Autographic Registers, of which the following is a specification.

One of the objects of my invention is to provide an autographic register adapted to do triplicate as well as duplicate work.

Another object of my invention is to provide suitable clamping, moving, and folding mechanisms which will fold the under strip of paper in continuous form in a suitable compartment within the case.

The various features of my invention will be more fully set forth in the description of the accompanying drawings, making a part of this specification, in which—

Figure 1 is a longitudinal vertical section of my device in position for use. Fig. 2 is a top plan view of Fig. 1. Fig. 3 is a top plan view of the folding-plates in position on the top of the case. Fig. 4 is a perspective section of the catch-bar. Fig. 5 is an enlarged view of the clamping and folding mechanisms. Fig. 6 is a similar view showing the parts in a different position. Fig. 7 is a section on line *x x*, Fig. 2. Fig. 8 is a plan view of the recording-paper.

A represents the base-frame of the register.

B represents a folding-compartment.

C D E represent rolls of paper supported upon suitable spools journaled within the case.

c d e represent the strips of recording-paper in position for use.

F represents the tablet, on which the writing is done. A sheet of carbon-paper is placed between the strips *e d* and another between the strips *d c* in the usual manner for doing manifold work. These strips or ribbons of paper *e d* are drawn through and held between the clamps *a b* of the traveling frame G. This frame travels on ways *g* on the top of the case. Clamp *b* is journaled on ears *f* on the frame G. *h* represents a retractile spring under the rear end of said clamp for pressing the paper down upon the stationary clamp *a*. The tension of the

spring is sufficiently strong to allow the two strips of paper to be drawn off together when the frame G is moved forward. In the preferred form of construction the under strip or ribbon of paper does not contain the business heading, such as shown in Fig. 8, but the two upper strips which are torn off for use have the bill-heads, and it is necessary that these be unrolled or drawn through a distance corresponding to the length of the bill-heads greater than that of the under strip or ribbon. To accomplish this, I provide an independent clamping device and a traveling folding-frame working upon the inside of the casing, which is carried and operated by the traveling frame G upon the top of the case in the following manner:

i i represent slots pierced through the top of the case.

J represents lugs depending from frame G, passing through said slots. Upon these lugs is secured a clamping-bar *j*. K represents a bed-plate which is made rigid and secured to the lugs J.

L represents a folding-frame provided with lugs *l*, which project laterally outward in gains *k*, formed in the sides of the casing, as shown in Figs. 1 and 7.

M represents lugs projecting outward from folding-frame through the slots *i i* and in rear of hooks *m* on the front arms of the frame G.

N represents the folding-blade attached to said frame L and projected forward just below the plane of the bed-plate K. This folding-plate is provided with notches *n*, as shown in Fig. 3, so as to pass the catches *o*.

The folding of the paper is accomplished in the following manner: When the frame G is moved forward, the bar *j* clamps the paper against the bar of the folding-frame L, and the strip is unwound and pulled forward as the frame is advanced. The paper is likewise clamped by the end contacts of the bed-plate K and folding-blade N, as shown in Fig. 5. As these blades travel forward the paper drops down, as shown in Fig. 1, and is folded over and placed upon a yielding platen O. This platen is supported by spring *p* and yields or descends as the paper is folded upon

it. It is essential to have a holding device for keeping the folds in position on the platen O when the folding-blade is retracted.

The preferred form of holder is constructed and operates as follows: Q represents a catch-bar provided with catches *o*, which project through slots on the top of the tablet. As shown, this bar is connected by a central screw *q*, and it is made of elastic material, so that the catches may spring or yield upward. When the carriage G, with the bed-plate K, is advanced, the forward end strikes the catches *o* and raises them up, allowing the paper to be folded in. When the carriage G is retracted, it moves backward without disturbing the folding-blade N until the hooks *m* come in contact with the lugs M of the folding-frame. The retracting of the plate K releases the catches *o*, which spring back and pass through the notches *n* of the folding-blade and pierce and hold the folds of the paper, so that when folding-blade N is retracted the paper will not be pulled out of position. The distance which the frame G moves forward and backward without engaging with and moving the frame is determined by the length of the bill-heading; but the chief feature of the differential movement is to operate the catches *o*, so as to fold the paper in position upon the platen. I believe I am the first to accomplish this result. When the carriage G is retracted, the operator places his hand upon the stem R, attached to the clamp-bar *b*, which rocks backward on its center and lifts the forward end out of contact with the paper, allowing the carriage to slide back without carrying the paper, which is then torn off in the usual manner. The lower strip of paper is released from the contact by the backward movement of the frame G in advance of the folding-frame, the parts being in the position shown in Fig. 6.

I claim—

1. In an autographic register, the combination of a traveling bed-plate, a folding-plate making contact therewith in its forward movement and operating to clamp a strip of paper between said plates, and mechanism for reciprocating said plates in appropriate time movements, substantially as described.

2. In an autographic register, the combination with two intermittingly-traveling frames, one provided with a bed-plate and the other with a folding-plate, mechanism for moving the same forward and backward, a stationary clamping-plate *a* mounted on one of said frames, and a rocking clamp-plate *b*, substantially as described.

3. In an autographic register, the combination of the traveling frame G provided with a bed-plate, the traveling frame L, and a folding-plate secured to said traveling frame L and operating to clamp the paper against the bed-plate and fold it into a receptacle, substantially as described.

4. In an autographic register, the combination of a bed-plate K, a folding-plate N, each supported on independently-moving frames, one of which frames moves forward and backward an interval in advance of the other and then engages with and moves its coacting frame, substantially as described.

5. In an autographic register, the combination of a case, a folding-blade arranged to travel within the case and provided at its free end with notches, one or more yielding catches *o*, the traveling plate K adapted to release and hold said catches during the folding operation, and a yielding platen within the case upon which the paper is folded and held by said catches, substantially as described.

6. An autographic register provided with a folding-compartment and platen, a traveling frame G the upper part of which travels on the top of the casing, and consists of clamping mechanism, the lower part of said frame traveling on the under side of the casing through grooves pierced therein, said lower part consisting of a bed-plate with a clamping-lug depending from the rear thereof and adapted to engage with and move a folding-blade with a strip of paper located between said clamping parts, releasing mechanism connecting the folding-blade with the moving frame, whereby the traveling frame is reciprocated slightly in advance of the folding-blade after the paper has been folded upon the platen, substantially as specified.

7. In an autographic register, the combination of the traveling frame G provided with a bed-plate K, the folding-frame L, a folding-blade connected thereto and engaging said bed-plate, ways formed upon the register-casing on which said frames are mounted, engaging devices on the frame G adapted to engage with frame L so as to move the latter at a later time with a correspondingly-reduced distance of movement, substantially as described.

In testimony whereof I have hereunto set my hand.

WILLIARD B. PRESTON.

Witnesses:

W. R. WOOD,
OLIVER B. T. KAISER.