No. 691,852. Patented Jan. 28, 1902.

J. S. FERGUSON.

AUTOGRAPHIC REGISTERING APPARATUS.

(Application filed Jan. 11, 1901.)

(No Model.) 3 Sheets—Sheet 1.

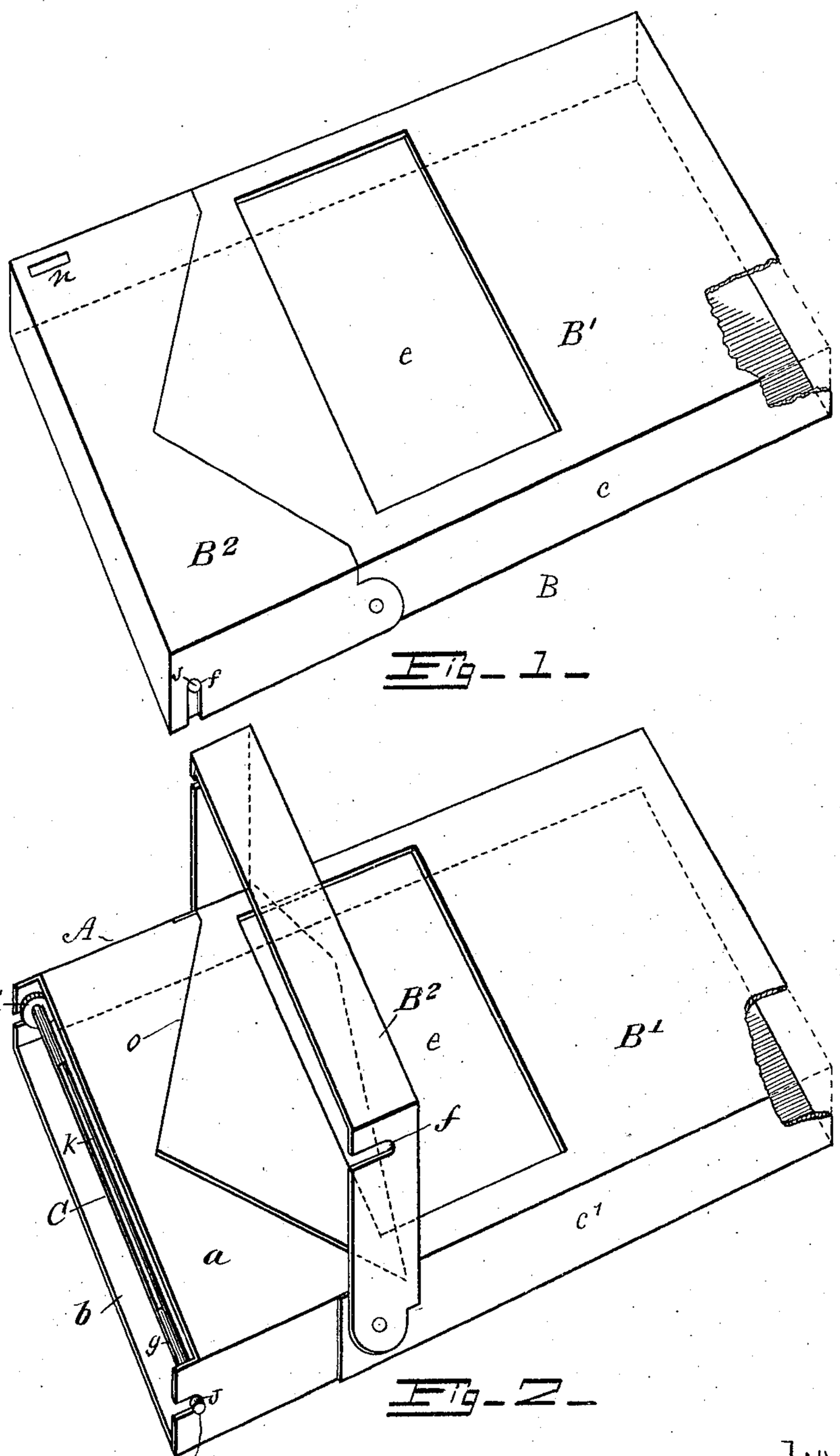

Fig. 1.

Fig. 2.

WITNESSES
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(No Model.) 3 Sheets—Sheet 2.

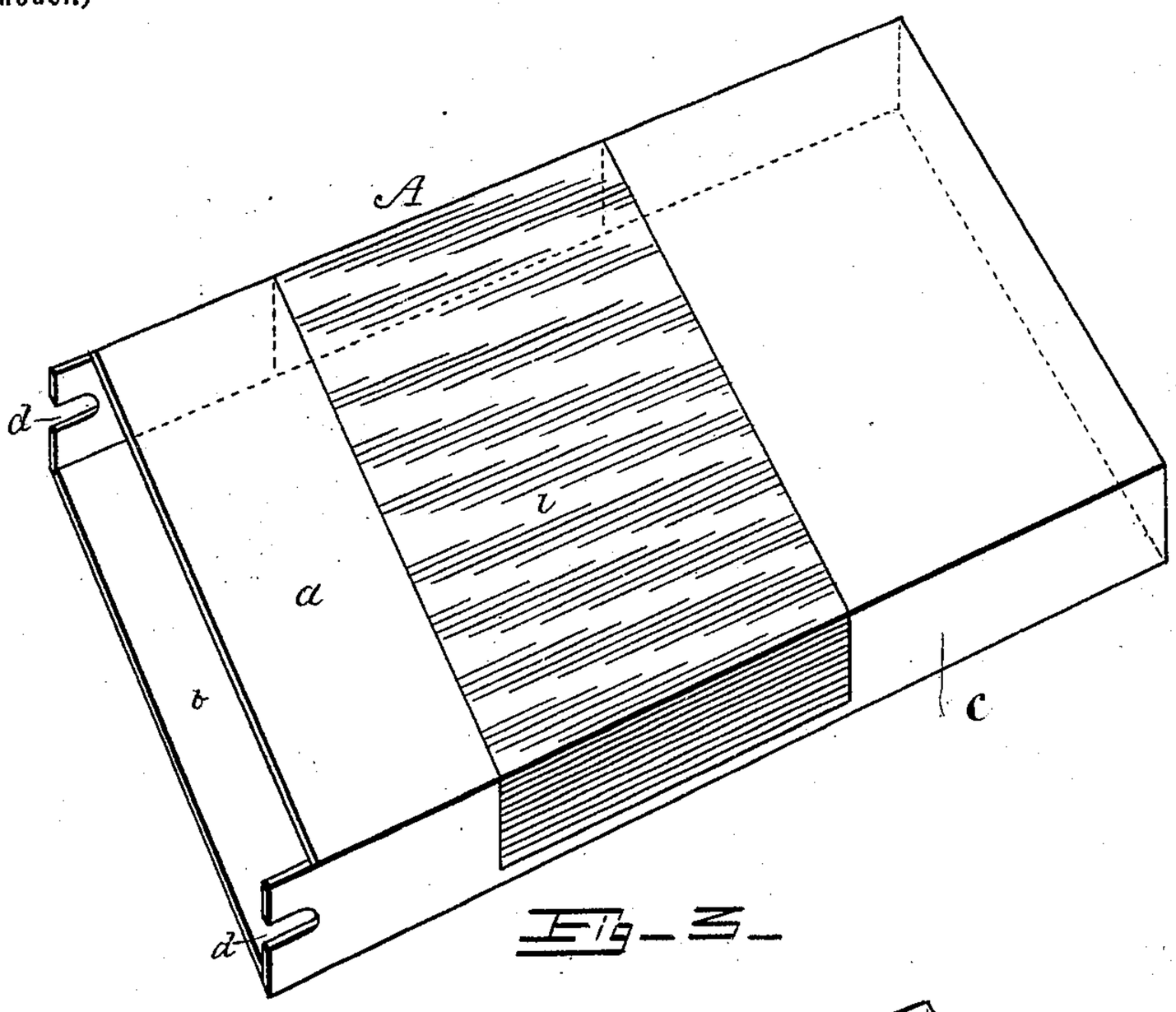

Fig. 3.

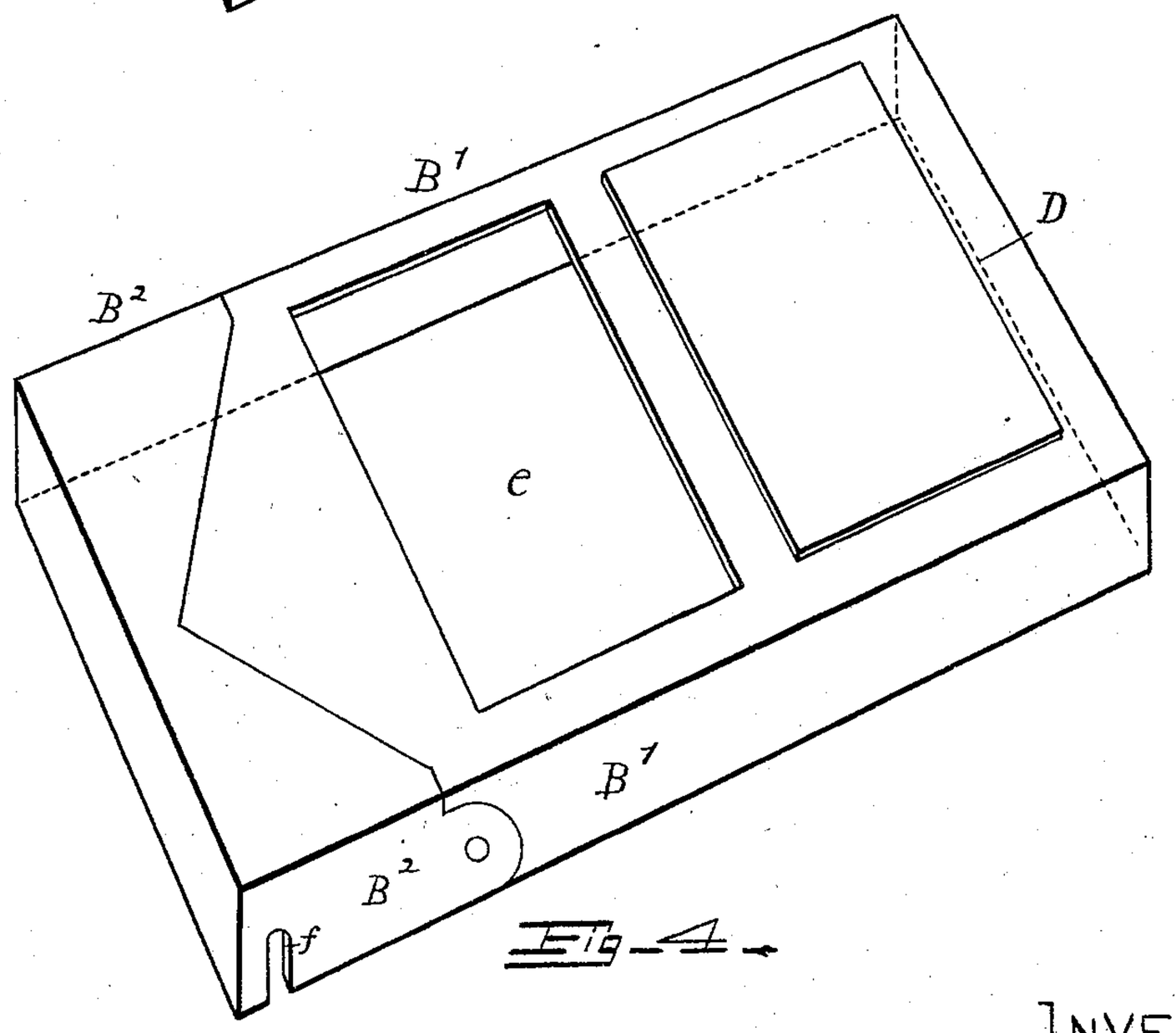

Fig. 4.

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(No Model.) 3 Sheets—Sheet 3.

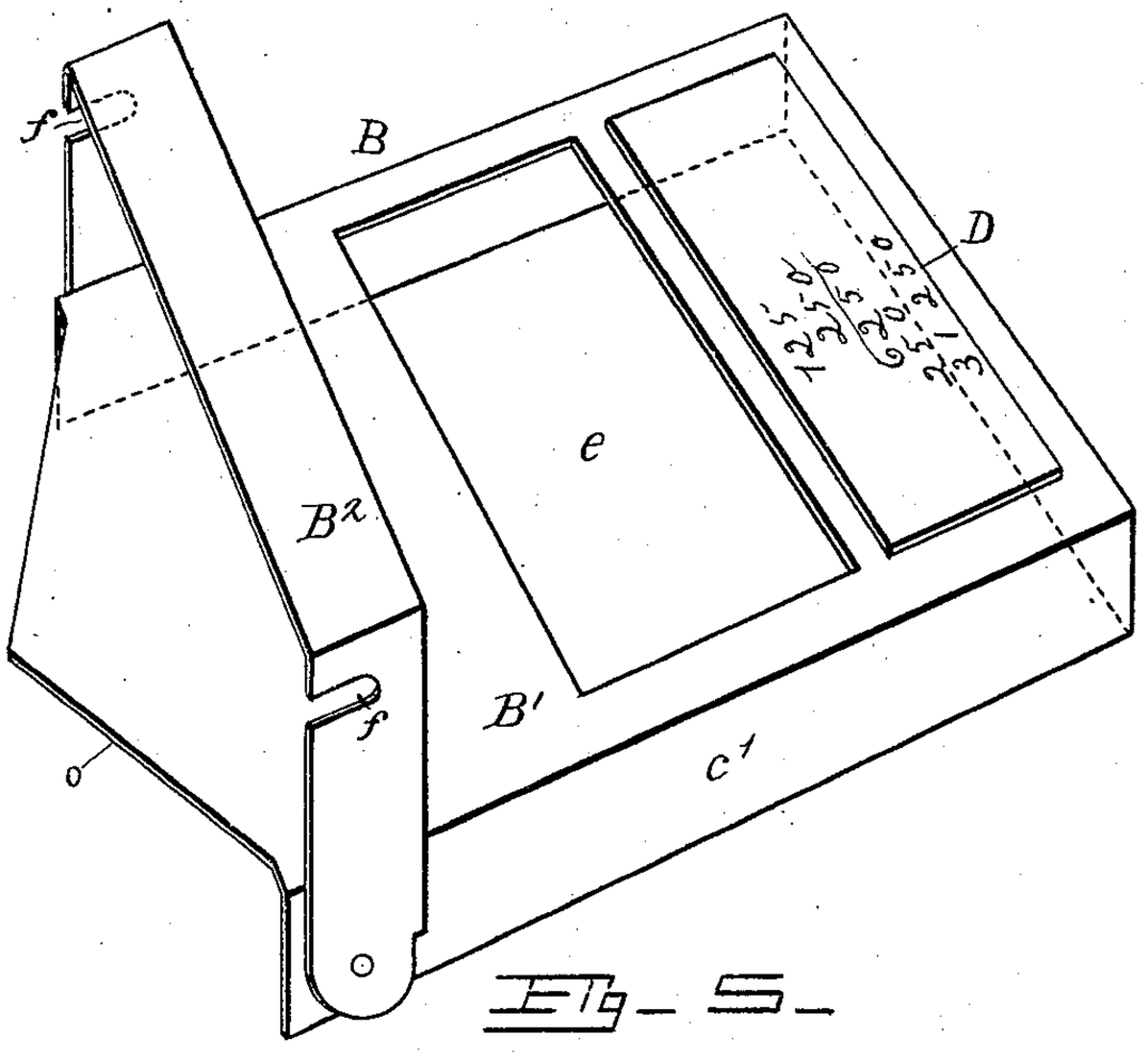

Fig. 5.

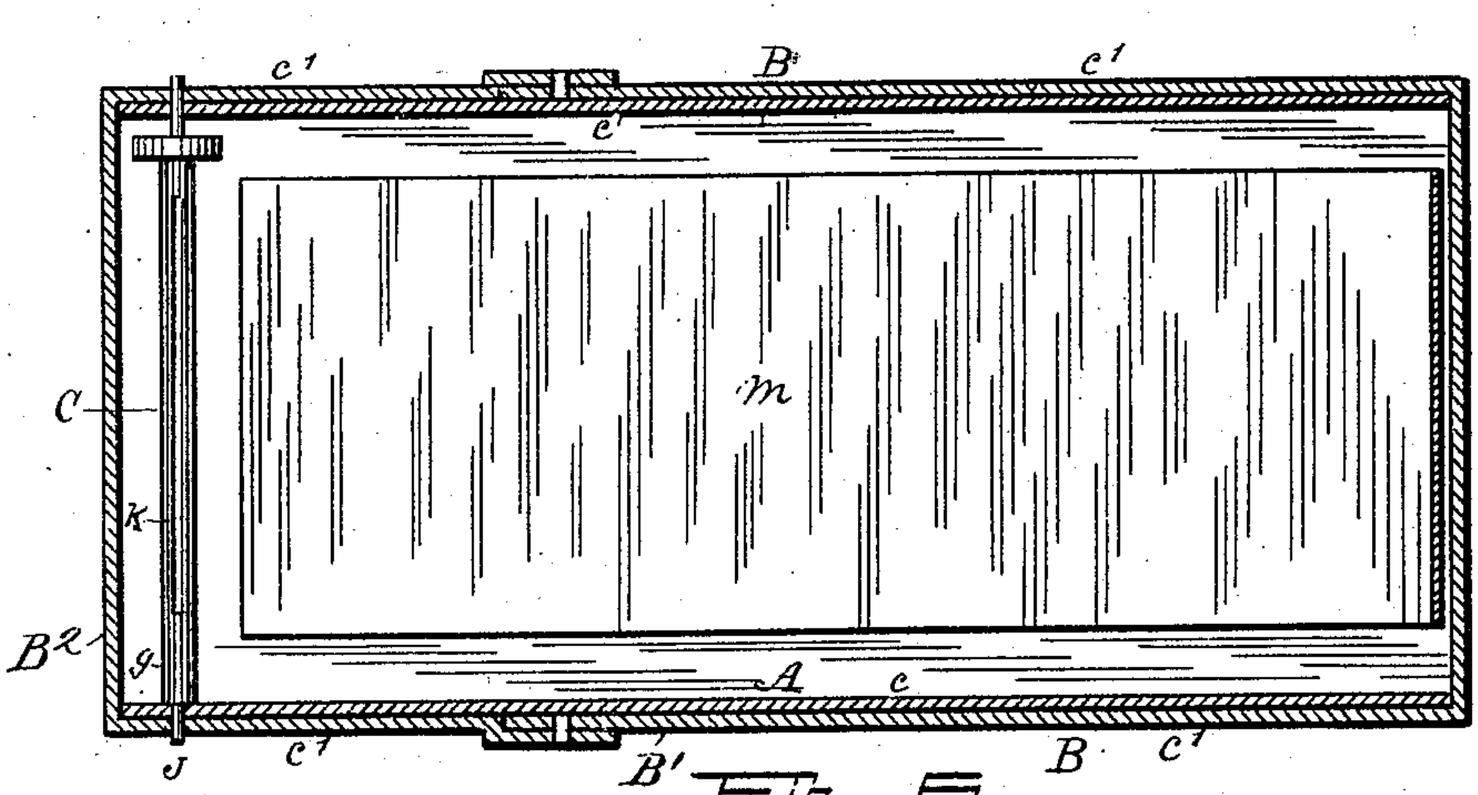

Fig. 6.

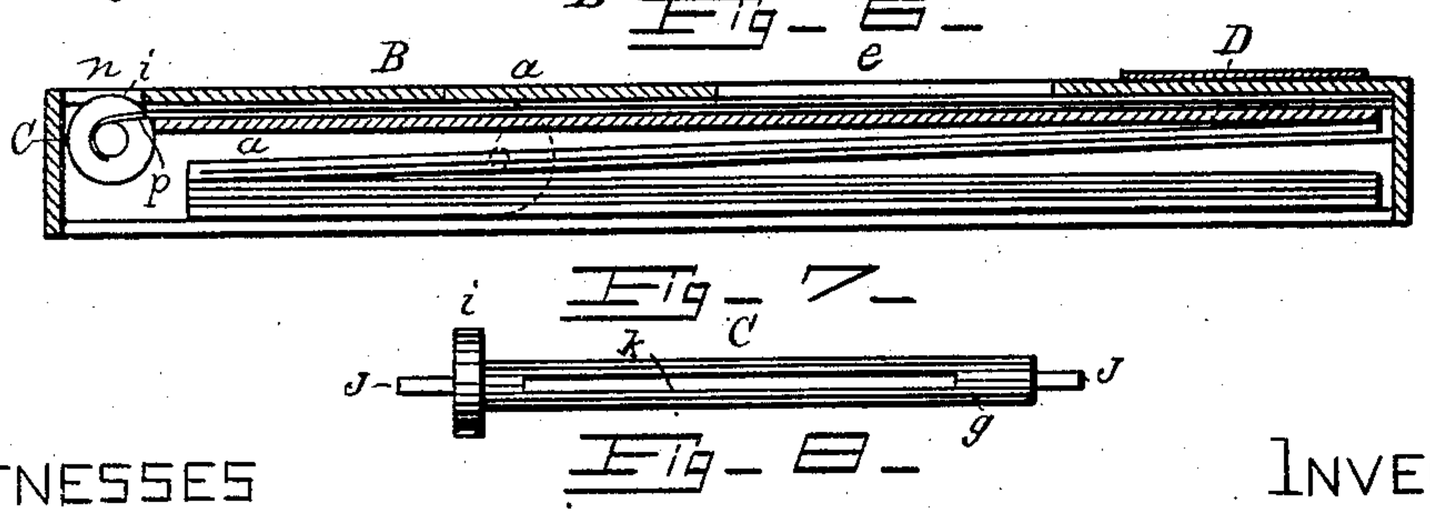

Fig. 7.

Fig. 8.

WITNESSES

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UNITED STATES PATENT OFFICE.

JAMES S. FERGUSON, OF MINNEAPOLIS, MINNESOTA.

AUTOGRAPHIC REGISTERING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 691,852, dated January 28, 1902.

Application filed January 11, 1901. Serial No. 42,847. (No model.)

To all whom it may concern:

Be it known that I, JAMES S. FERGUSON, a citizen of Canada, and a resident of Minneapolis, in the county of Hennepin and State of Minnesota, have invented a new and useful Improvement in Autographic Registering Apparatus, of which the following is a specification.

My invention relates to that class of autographic registers wherein duplicate strips of paper are carried over a writing tablet or platen by a suitable feeding device, (which feeding device in this case also serves as a storage-roller for the preserved memoranda,) and transfer or duplicating material intermediate the said strips of paper, by means of which the memoranda transcribed upon the upper-lying strip is automatically reproduced upon the underlying strip, the former (the upper-lying strip) being led from the platen, torn off, and given to the customers as checks, bills, or receipts, while the latter (the underlying strip) is in like manner led from the platen by and to the before-mentioned feed and storage roller, where it is preserved for future reference, my purpose being the production of a portable or pocket register adapted for use by salesmen, collectors, shipping-clerks, &c.

To this end my invention consists of the simple, compact, and inexpensive pocket-register hereinafter fully described in connection with the accompanying drawings, wherein—

Figure 1 is a perspective of my device complete, the lid being closed; Fig. 2, the same, the lid being opened; Fig. 3, a perspective of the inner part or case; Fig. 4, a perspective of the outer part or case, the lid being closed; Fig. 5, the same, the lid being opened; Fig. 6, a horizontal longitudinal section; Fig. 7, a vertical longitudinal section, and Fig. 8 a side elevation of the storage-roller detached.

Similar letters refer to similar parts throughout the several views.

The inner case A consists of a rectangular box having its rear end (the end opposite the roller) open, as shown. It may for convenience be about seven inches long, four inches wide, and one-half inch deep, such size of case being adapted to carry in a pocket if necessary. It may be made of any suitable material; but I prefer to fashion it of sheet metal, aluminium being best adapted to the purpose. One of its horizontal sides *a* may be designated as its top and be somewhat shorter than its parallel or bottom side *b*, for purposes which will be hereinafter set forth. Its parallel vertical sides *c* are provided with the horizontal notches *d*, adapted to receive the journaled ends of the feed-roller C. The outer case B consists of a similar rectangular box, but having one side (its lower one) open. It is somewhat larger than the first-named or inner case, to the end that it may serve as a cover therefor, closing over it. It is fashioned with an opening *e* in its upper side, the purpose of which will hereinafter be set forth, and its parallel vertical sides *c* are provided with the vertical notches *f*, adapted to receive the journaled ends of the before-mentioned feed-roller C, which ends extend beyond the vertical walls *c* of the inner case A. This outer case is fashioned in two parts, pivotally affixed or hinged together, to the end that one portion, B′, may serve as a fixed cover for the inner case A, while the other portion, B^2, serves as a lid to be raised when detaching the removable paper strips.

The storage-roller C (shown detached in Fig. 8) consists of a longitudinally-slotted shaft portion *g*, adapted to receive and to wind the before-mentioned transcribed lower strip of paper, (the slot *k* therein being designed to receive the end of the strip in starting the roll,) to which is affixed the feed-wheel *i*, by means of which it is rotated. This shaft portion is journaled at its ends—that is to say, it is turned smaller—thus providing journals or pins *j*, adapted to enter the horizontal notches *d* of the inner case A and the vertical notches *f* of the outer case B, which notches (*d* and *f*) being at right angles to each other form suitable bearings for the said pins *j* while the several parts are in place, but from which the roller C may be removed when the outer case B is removed or when its lid portion B^2 is raised.

The impressible tablet D, I preferably affix to the upper side of the outer case B below or in the rear of the opening *e*. It may be a card of celluloid or the like affixed to the cover, or a section of the case may be coated with some adhesive material adapted to the purpose, any impressible material from which markings may be erased being adapted to the purpose.

I operate my register in the following manner: I first remove the outer case B and "load" the inner case A by slipping the packet of paper *p* (two strips of paper laid one upon another and folded backward and forward upon themselves to produce a detachable package) into either of its open ends, leaving the upper fold free or outside the case. I now lay the free end of the lower strip of paper *p* upon the upper side of the said lower case and thread its end into or through the slot *h* of the roller C, and by the aid of the feed-wheel *i* I rotate the roller C, giving one or two turns to start the accumulating roll. I next place a sheet of carbon (transfer) paper *l* transversely to and upon the said lower strip of paper *p*, letting its ends overlap the parallel vertical sides *c* of the said inner case A, as shown by Fig. 3. I now fold the upper strip of paper *m* across, over, and upon the sheet of carbon-paper *l* and replace the outer case B, the parallel vertical sides *c'* of which overlap the downwardly-turned ends of the sheet of carbon-paper *l*, thus clamping and holding it in place. The register is now "loaded" and ready for use. I now transcribe the desired memoranda upon the exposed portion of the upper-lying strip of paper *m*, (the portion showing through the opening *e* of the outer case B,) which is automatically duplicated upon the underlying strip of paper *p* through the transferring properties of the intermediate sheet of carbon-paper. I now rotate the storage-roller C by means of the "feed-wheel" *i*, thereunto affixed, (there being an opening *n* in the lid B^2 of the outer case B, through which the upper edge of the said feed-wheel *i* protrudes,) and wind the underlying automatically-transcribed strip of paper *p* thereupon, the upper-lying transcribed strip *m* passing over the same. I now raise the lid B^2 of the outer case B and tear off the said upper-lying transcribed strip *m*, which I give to the customer, the duplicate thereof (the underlying strip *p*) being wound upon the roller C. It is noticeable that the dividing-line of the outer case B and its lid B^2 is at an angle and that it serves as a cutting edge *o* to detach the slips torn either from the upper transcribed strip *m*, which are given to the customers, or from the lower duplicated strip *p*, when the roller and its contents are detached, which is accomplished by lifting the said roller C from its bearing (the horizontal notches *d* of the inner case A) and tearing the strip of paper wound thereon over the cutting edge *o* of the outer case B.

It is apparent that should I wish to issue single detached bills, checks, or receipts, but do not care to retain copies thereof, I can form my manifold-packet of a single strip of paper and dispense with the storage-roller C, the transverse carbon-sheet *l*, and the movable or hinged portion B^2 of the outer case B, the device being then operative without the hinged portion. Again, should I wish to issue duplicate detached bills, checks, or receipts and still do not care to retain copies thereof, I can form my manifold-packet of two strips of paper, dispense with the storage-roller C, and provide an intermediate carbon-sheet *l*. Once again, should I wish to issue single detached bills, checks, or receipts, but desire to retain a copy thereof, I can form my manifold-packet of two strips of paper, utilize the storage-roller C, and provide an intermediate carbon-sheet *l*, remove the detachable bills, checks, and receipts from the upper-lying strip *m*, and pass the duplicate thereof (the underlying strip *p*) to the storage-roller C. Still once again, should I wish to issue duplicate bills, checks, or receipts and desire to retain a copy thereof, I can form my manifold-packet of three strips of paper, utilize the roller C, and provide two intermediate carbon-sheets *l*, remove the detachable duplicate bills, checks, or receipts from the two upper-lying strips, and pass the triplicate thereof (the underlying strip *k*) to the storage-roller.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In an automatic registering apparatus, the combination of an inner case having an open end, horizontal slots in the vertical side walls thereof; a longitudinally-slotted storage-roller horizontally journaled therein; an outer case or cover for the said inner case; said outer case embodying a fixed portion, and a movable portion pivotally affixed thereto, said fixed portion being fashioned with an aperture therein, whereby a portion of the blank paper incased by, and folded over the said inner case, is exposed for transcriptions and the vertical slots in the said movable portion adapted to receive the journaled ends of the said roller and to hold them in place in the said horizontal slots of the said inner case, substantially as shown and for the purposes specified.

2. In an automatic registering apparatus, the combination of an inner case adapted to receive a manifolded paper packet, and to provide a platen therefor; an outer case adapted to cover the said inner case; the said outer case embodying a fixed portion adapted to hold the transferring-sheets of paper in place, and a movable portion adapted to serve as a lid which may be raised when removing the detachable manuscript; a cutting edge on the said fixed portion; and a longitudinally-slotted roller, horizontally journaled in the said inner case and secured in place by the lid of the said outer case, substantially as shown and for the purposes specified.

3. In an automatic registering apparatus, the combination of the inner case having an open end; horizontal slots in the vertical side walls thereof; a longitudinally-slotted storage-roller horizontally journaled therein; an outer case or cover for the said inner case;

an aperture therein, whereby a portion of the blank paper, incased by and folded over the said inner case is exposed for transcriptions; vertical slots in the vertical walls thereof, adapted to register with the horizontal slots of the said inner case and to hold the said roller in place therein; and a cutting edge for detaching the transcribed strips of paper, substantially as shown and for the purposes specified.

JAMES S. FERGUSON.

Witnesses:
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AUG. WARREN.