E. P. HARRIS.

AUTOGRAPHIC REGISTER.

APPLICATION FILED DEC. 7, 1915.

1,194,174.

Patented Aug. 8, 1916.

2 SHEETS—SHEET 1.

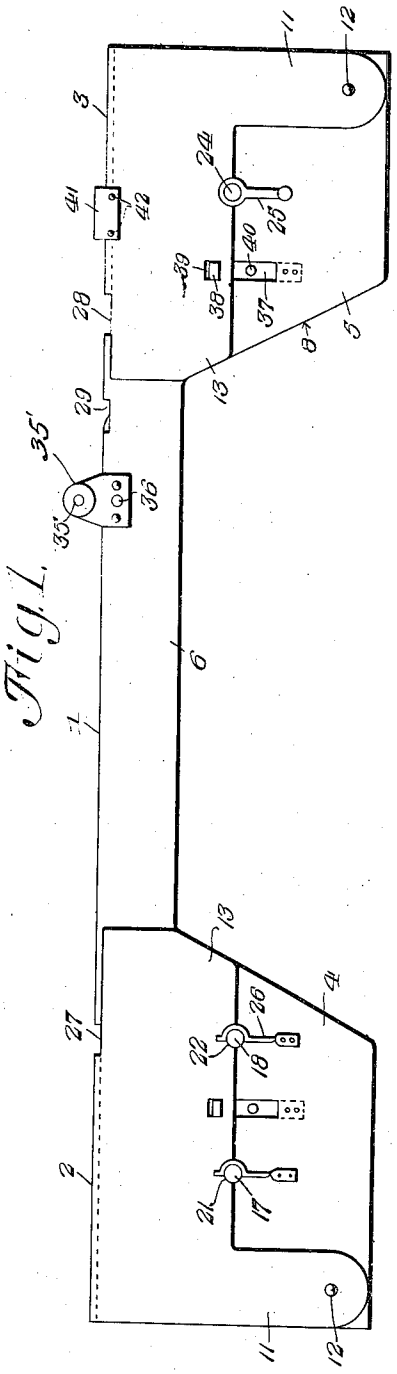


Fig. 1.

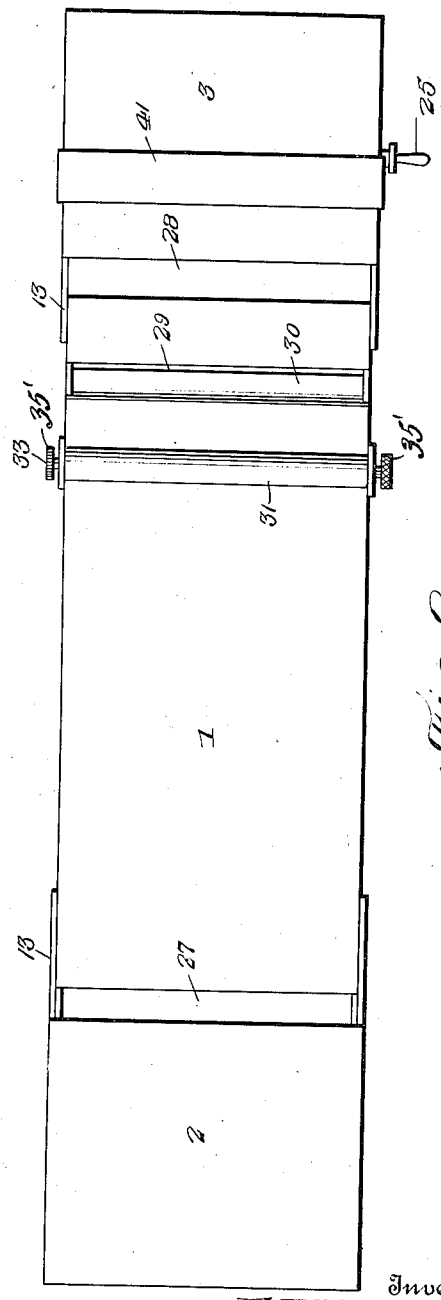


Fig. 2.

Witnesses

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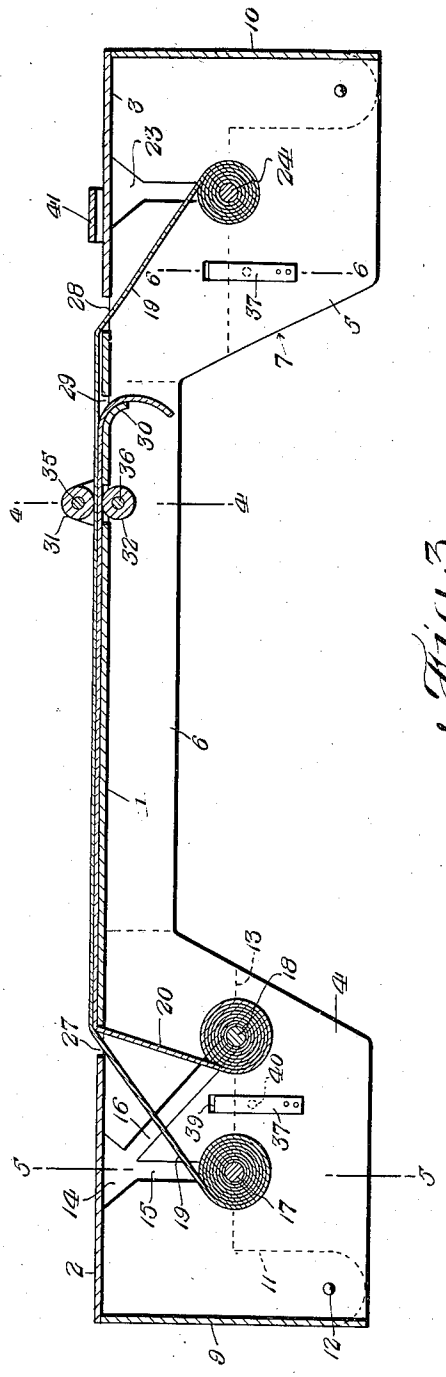


Fig. 3.

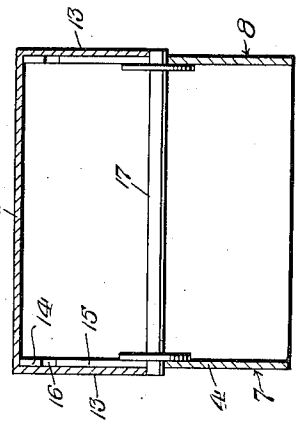


Fig. 5.

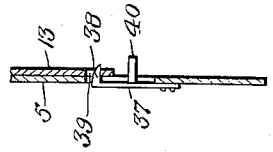


Fig. 6.

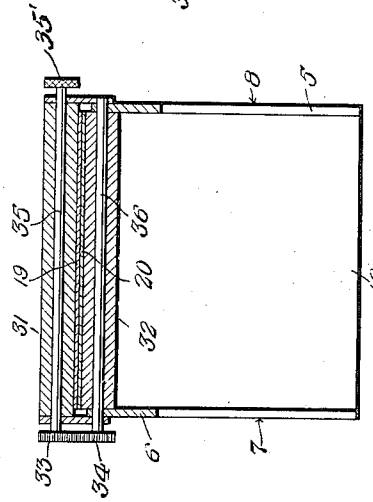


Fig. 4.

Witnesses

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UNITED STATES PATENT OFFICE.

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AUTOGRAPHIC REGISTER.

1,194,174. Specification of Letters Patent. Patented Aug. 8, 1916.

Application filed December 7, 1915. Serial No. 65,581.

To all whom it may concern:

Be it known that I, EDWARD P. HARRIS, a citizen of the United States, residing at Superior, in the county of Nuckolls and State of Nebraska, have invented new and useful Improvements in Autographic Registers, of which the following is a specification.

This invention relates to autographic registers, the object in view being to provide a simple, handy and convenient device of the character referred to, by means of which a plurality of records may be simultaneously produced with the aid of a pen or pencil, the arrangement being such that a permanent record is produced and temporarily retained in the body of the register while another record is adapted to be detached or torn off and to be delivered to the customer, the same consisting of a duplicate of the original record retained by the merchant or salesman.

A further object of the invention is to provide novel means for mounting the several web delivering and receiving rollers, covering and uncovering the chambered supports in which they are mounted, and holding the shafts or spindles of said rollers in proper working position.

With the above and other objects in view, the invention consists in the novel construction, combination and arrangement of parts, as herein described, illustrated and claimed.

In the accompanying drawings:—Figure 1 is a side elevation of an autographic register embodying the present invention. Fig. 2 is a plan view of the same. Fig. 3 is a central vertical longitudinal section through the same. Fig. 4 is a vertical cross section on the line 4—4 of Fig. 3. Fig. 5 is a vertical cross section on the line 5—5 of Fig. 3. Fig. 6 is a fragmentary vertical section illustrating one of the catches.

The autographic register contemplated in this invention comprises a writing bed 1, writing bed extensions 2 and 3 and chambered supports 4 and 5 at opposite ends of the main body of the writing bed whereby the latter is held at a suitable elevation to enable the purchaser's duplicate bill to be torn from the web by placing the hand under the writing bed either with or without tilting the device as a whole and tearing off that portion of the lower record web which contains the duplicate of the bill and which is designed to be handed to the purchaser of the goods enumerated in the bill.

In the preferred embodiment of the invention, the writing bed as well as the chambered end supports therefor is formed of sheet metal, and flanges 6 of suitable depth are provided at opposite sides of the writing bed 1 to impart the requisite support and stiffness thereto, the end portions of the flanges 6 being of considerably greater height and extended downwardly to form the opposite side walls 7 and 8 of the chambered end supports. The outer ends of said supports are closed by the end walls 9 and 10.

Each of the writing bed extensions 2 and 3 is of the form best illustrated in Figs. 1 and 5, the same comprising in addition to the top or cover which forms the writing bed extension, arms 11 which extend downwardly on the outside of the chambered end supports and are pivotally connected thereto at 12 in order to enable the extensions 2 and 3 to be rocked out of the way to give access to the rollers or spools hereinafter referred to and in order to enable the latter to be removed and placed. In addition to the arm 11, each displaceable writing bed extension comprises the horizontally extending vertically disposed flanges 13 which lie outside of the side walls 7 and 8 above referred to and serve to prevent any lost motion or shifting of the displaceable writing bed extensions.

One of the chambered end supports 4 is provided with slots 14 in the side walls thereof and said slot is formed with the branches 15 and 16 to receive the spools 17 and 18 on which are respectively wound an initial record web 19 the under surface of which is coated with transfer material such as carbon, and the customer's sheet 20 which is of plain uncoated paper. The flanges 13 at that end of the device are formed in their lower edges with notches 21 and 22 to partially embrace and hold in place the

spools 17 and 18 which lie in the lower extremities of the slots 15 and 16. In the other chambered end support 5, the side walls thereof are provided with slots 23 to receive a receiving spool 24 for the outer web 19, the spool 24 being engaged and maintained in its proper position by the flanges 13 adjacent thereto which are formed with notches similar to those 21 and 22 above described to partially embrace the last named spool when the displaceable writing bed extension is in its normal position. An operating crank 25 is placed on one end of the spool 24 to enable the web 19 to be wound thereon, the extremity of said web being attached to the receiving spool 24. Spring brakes 26 serve to prevent the spools 21 and 22 from turning too freely and thereby act to keep a tension on both of the webs 19 and 20.

The writing bed and the end extensions thereof are so constructed and arranged in relation to each other as to provide a transversely extending slot 27 near one end of the register, a similar slot 28 near the other end of the register, and an intermediate slot 29 just beneath which the edge portion of the writing bed is curved or deflected downwardly to form a tear-off lip 30 over which the bottom web is fed by means of the upper and lower feed rolls 31 and 32, said rolls being preferably composed of or faced with rubber so as to obtain a frictional hold on the upper and lower webs 19 and 20 in order to uniformly feed both webs toward the receiving end of the register. The rolls 31 and 32 are geared together for simultaneous and equal rotation by means of the gears 33 and 34 fast on the ends of the shafts 35 and 36 of said rolls. The shaft 35 has a knurled head 35′ on one end thereof to enable the feed rolls to be turned to primarily feed the webs forward until one of the webs may be attached to the receiving spool 24.

The displaceable writing bed extensions 2 and 3 are latched in place by means of spring catches 37 preferably secured to the inner surfaces of the side walls 7 and 8 of the chambered end supports, each spring 37 being provided with a catch lip 38 to engage a hole 39 in one of the flanges 13 and being further provided with a push button or stud 40 extending through an opening in the respective side wall 4 or 5 so that the operator by pushing inwardly on the button or stud 40 may move the catch 38 out of engagement with the flange 13, permitting the displaceable writing bed extension to be swung outwardly on the pivot 12.

41 represents a guide consisting of a metal strap located slightly above the writing bed extension 3 and having end flanges turned downwardly and fastened at 42 to the flanges 13 of said extension 3. Both of the webs 19 and 20 may be drawn under the guide 41 in case it is not desired to wind the web 20 on the spool 24 or in case the top web should be coated with carbon on its lower side in which event the top web only may be drawn under the guide 41 and the lower web, uncoated with carbon, may be wound upon the receiving spool or roller.

From the foregoing description, taken in connection with the accompanying drawings, it will now be understood that as a record has been made on the outer web 19, a duplicate record is transferred to the inner web 20. When all of the items of a bill have been entered, by means of the crank 25, the spool 24 is turned so as to roll the upper web thereon. In this movement, the feed rolls 31 and 32 inforce an equal movement of the bottom web 20 and the latter is directed through the slot 29 and then torn off with the aid of the lip 30 and handed to the customer, the merchant's record being wound upon the spool 24. Whenever required, the spools 18, 19 and 24 may be removed from their respective slots in the chambered end supports by rocking the displaceable writing bed extensions upwardly and outwardly and simply lifting said spools out of place. New spools may then be substituted therefor as occasion may require.

In some cases the individual merchant or salesman may prefer to carry the top web 19 over the writing bed extension 3 and under the guide 41. In such case the inner web 20 may be attached to the spool 24 and wound thereon as the merchant's record, while the original is torn off and handed to the customer. The arrangement first described is, however, preferred for the reason that a clean record is handed to the purchaser and not one which has a carbon coating on one side and which is therefore objectionable on that account.

Having thus described my invention, I claim:—

1. In an autographic register, the combination of chambered end supports formed with spool receiving slots open at the upper edges thereof, a writing bed supported at an elevation thereby, displaceable writing bed extensions forming covers for said chambered supports and being spaced in relation to the writing bed to provide adjacent to one end of the register a slot through which a plurality of record webs may be passed, and adjacent to the other end of the register a slot through which one of the webs may be drawn, the bed being formed with an additional slot through which one of the webs may pass in order that said webs may be separated from each other.

2. In an autographic register, the combination of chambered end supports formed with spool receiving slots open at the upper edges thereof, a writing bed supported at an elevation thereby, web delivery and re-

ceiving spools journaled in said slots, displaceable writing bed extensions forming covers for said chambered supports, and upper and lower feed rolls between which the record webs pass, said feed rolls being of equal diameter and being geared together for simultaneous rotation.

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

EDWARD P. HARRIS.

Witnesses:
W. H. NANCE,
E. M. THOMPSON.