

(No Model.)

J. B. KING & G. W. CARHART.
AUTOGRAPHIC REGISTER.

No. 567,785.

Patented Sept. 15, 1896.

Fig. 1

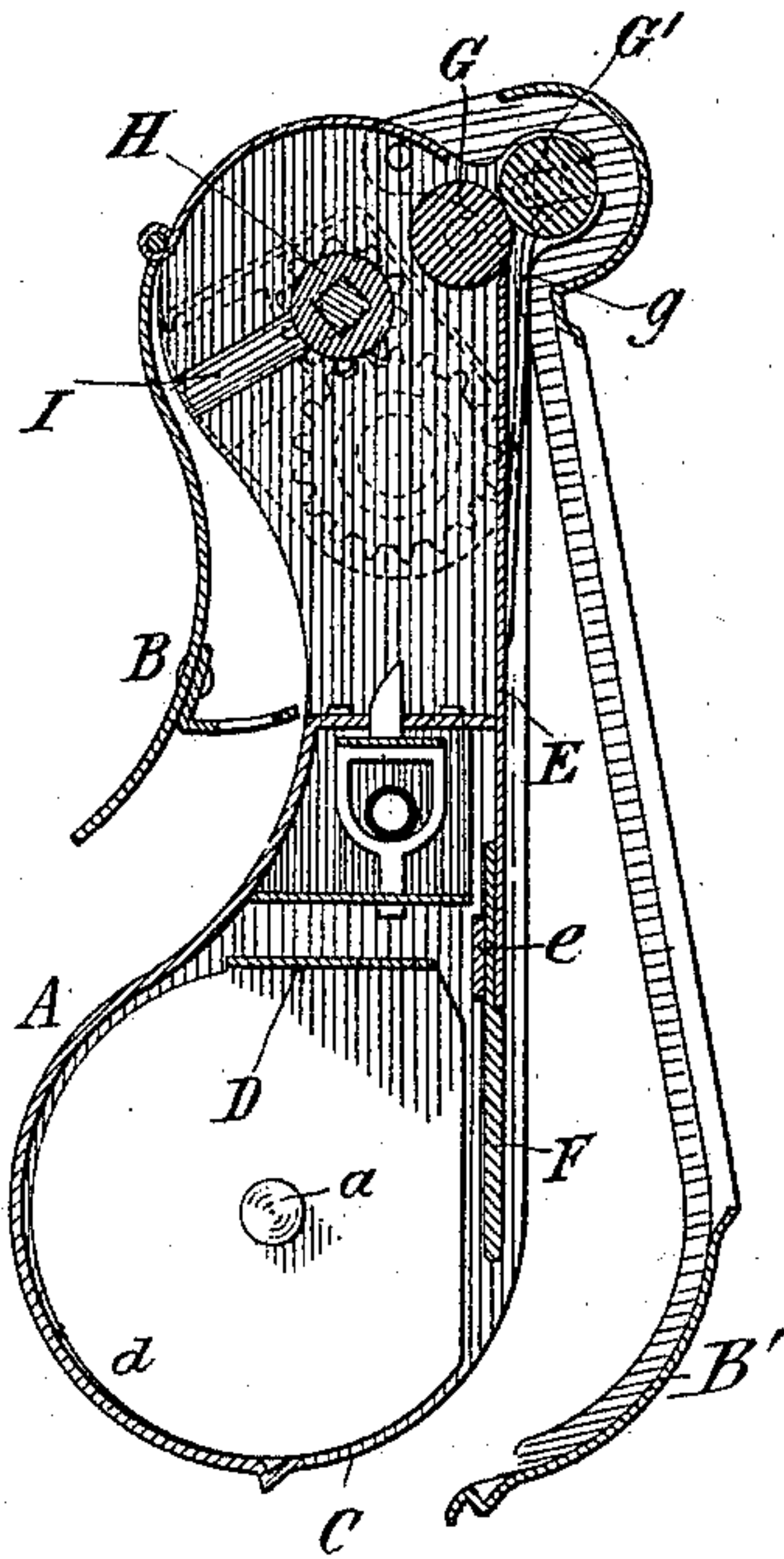


Fig. 2

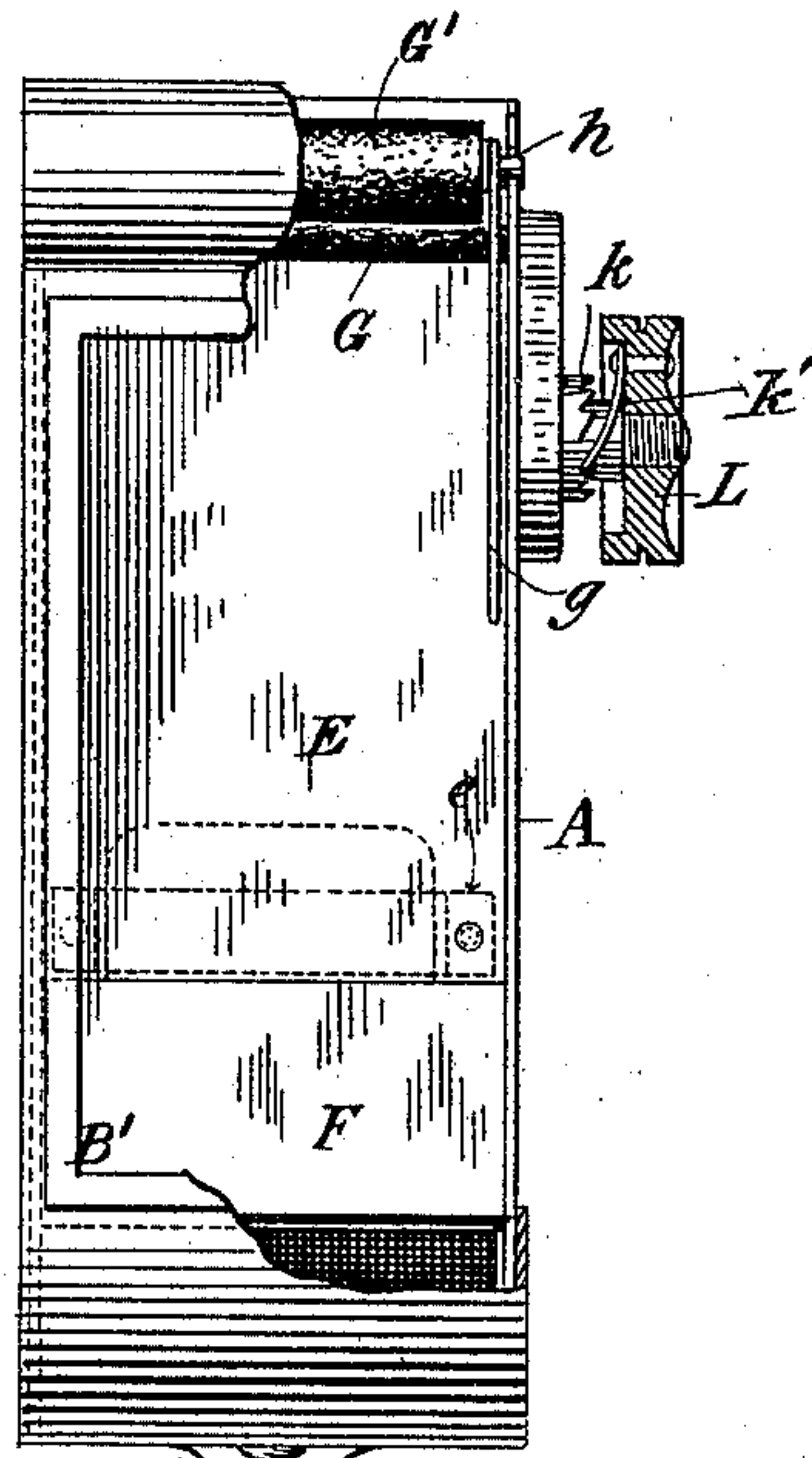


Fig. 4

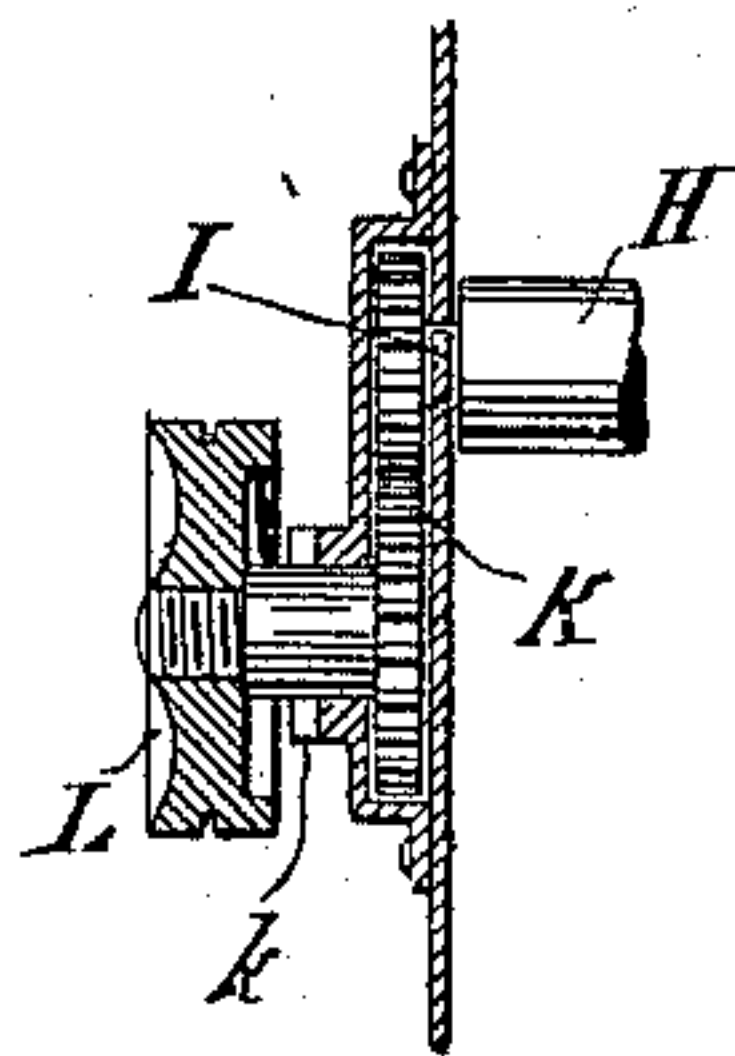


Fig. 3

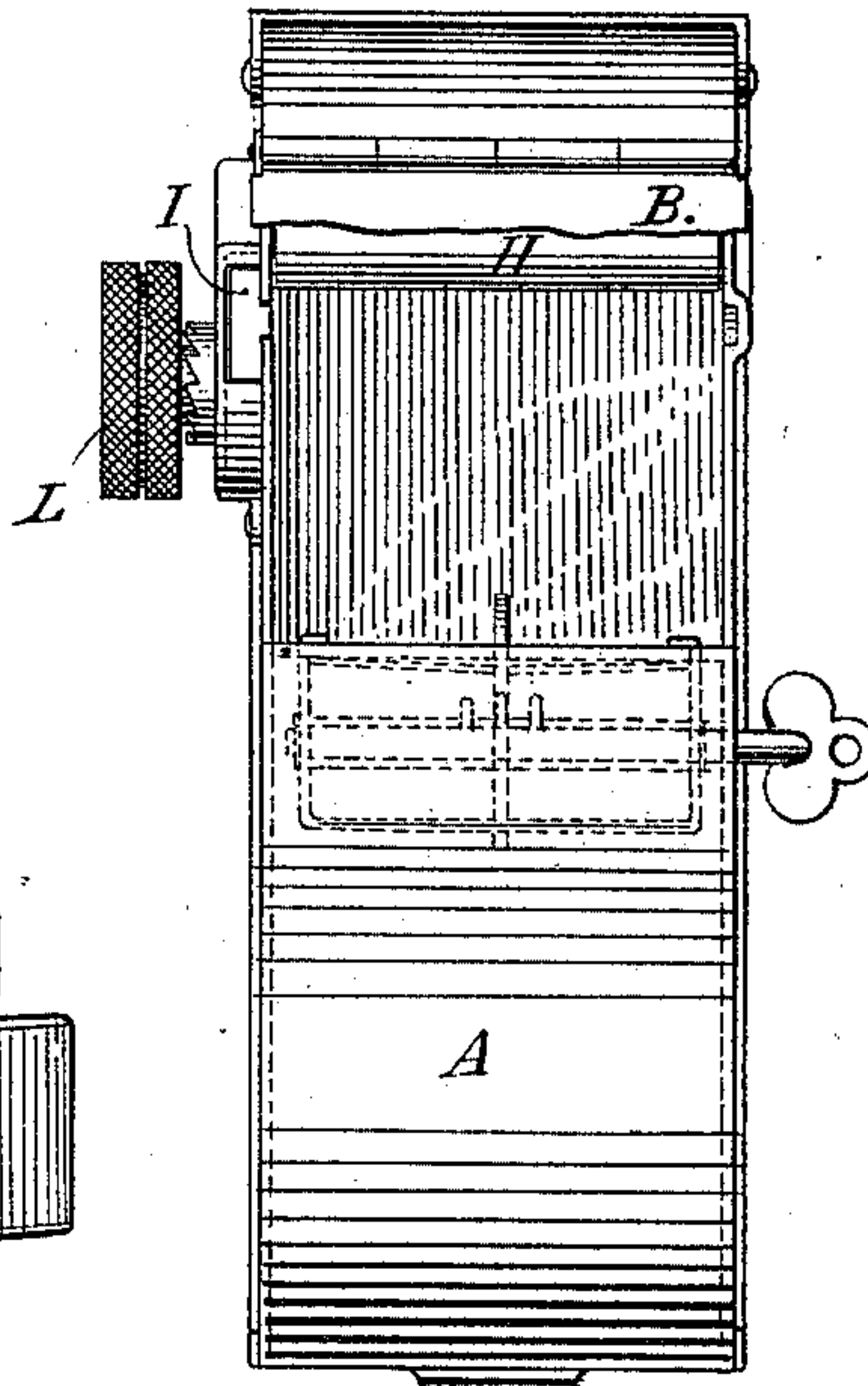


Fig. 5

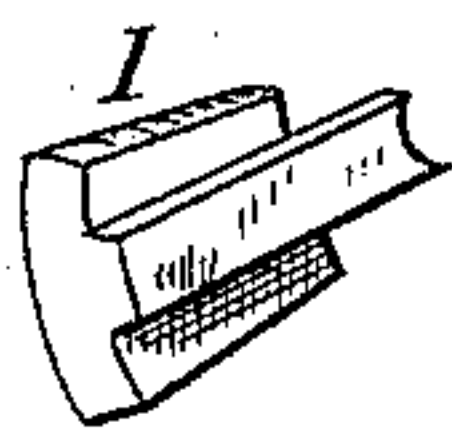


Fig. 6

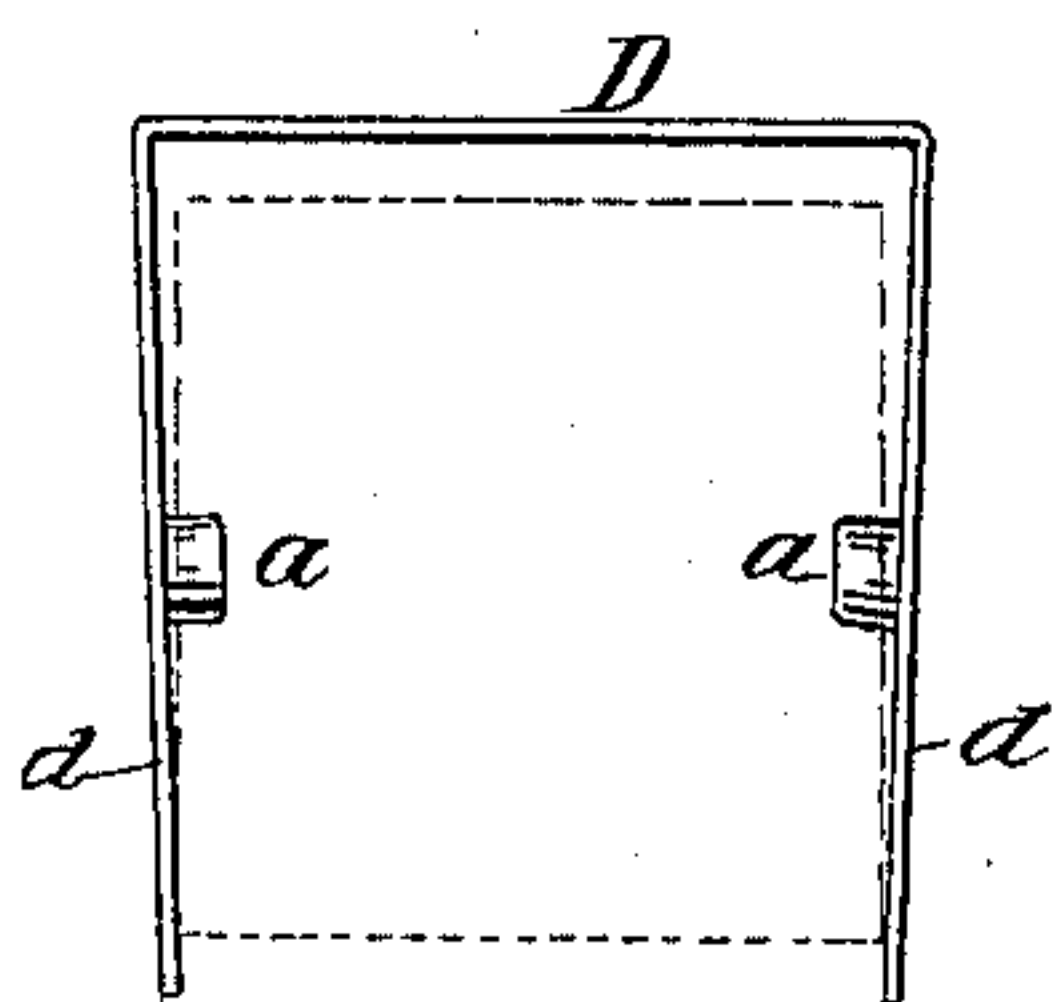
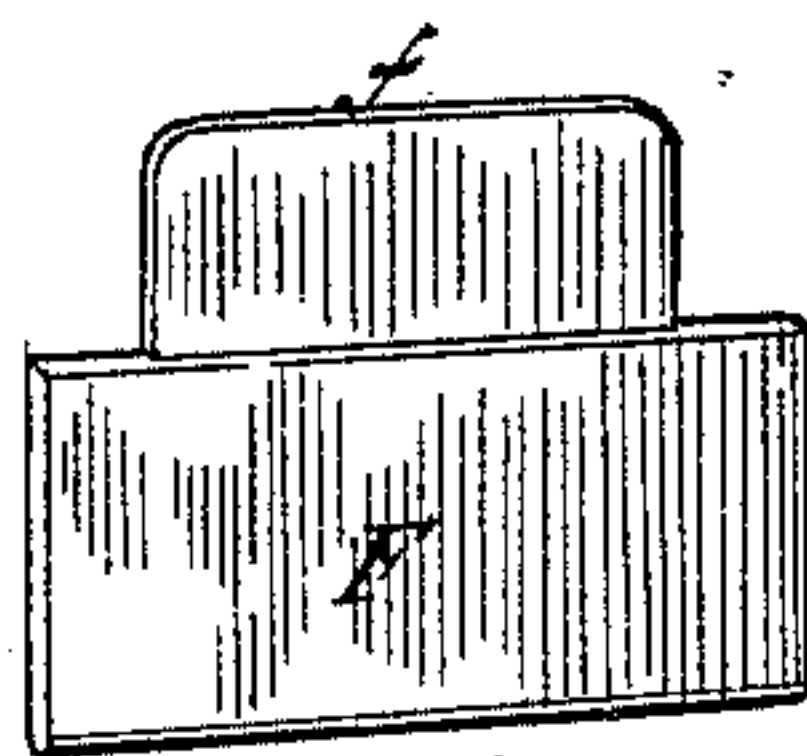


Fig. 7



Witnesses:

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UNITED STATES PATENT OFFICE.

JOHN B. KING AND GEORGE W. CARHART, OF BATH BEACH, NEW YORK,
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AUTOGRAPHIC REGISTER.

SPECIFICATION forming part of Letters Patent No. 567,785, dated September 15, 1896.

Application filed July 21, 1894. Serial No. 518,194. (No model.)

To all whom it may concern:

Be it known that we, JOHN B. KING and GEORGE W. CARHART, citizens of the United States, residing at Bath Beach, in the county of Kings and State of New York, have invented certain new and useful Improvements in Autographic Registers, of which the following is a specification.

Our invention relates to a portable conductor's register for recording fares collected in cash, in which the desired details are written upon a slip of paper which can be torn off and given to the passenger, and the record is transmitted by means of carbon-paper to two other slips, one of which is retained in the register-casing, while the other may be torn off and retained by the conductor as a voucher. In such a register recording-slips are usually wound in the form of a roll upon a supply-spool, and thence pass over a recording-table and between traction-rolls, whence that slip which is to be retained in the register is wound upon a spool inclosed in the case, while those which are to be retained by the passenger and conductor are torn off. The supply-spool is removed from the register-casing as often as the slips thereon are used up, and a spool with a fresh supply is inserted. In order to provide for the convenient removal and insertion of the supply-spool and to give a proper tension to the slips, we place the supply-spool in a removable holder having upon its sides lugs which project inwardly to receive and hold the spool, and having elastic sides which can be sprung outwardly to permit the insertion of the spool and which, when the spool is in position, bear against the edge of the roll of paper thereon, thus giving a proper tension to the slips as they are drawn across the recording-table.

Our invention also involves certain other improvements in the details of the apparatus, which will be best understood by reference to the accompanying drawings, forming a part hereof.

Figure 1 of the drawings shows a longitudinal section of the register; Fig. 2, a view of the top, and Fig. 3 a view of the bottom, with a portion of the case shown as broken

away in each; and Figs. 4, 5, 6, and 7 show detail views of parts of the apparatus.

Referring to the drawings, A indicates the register-case, in which is contained the mechanism, and which is provided with the lids B B'. In one end of the case is a chamber C for the supply-spool, which is held between the lugs *a a*, projecting inwardly from the sides *d d* of the spool-holder D. (Shown in Fig. 6.) The spool-holder D is placed loosely in the chamber C, being removable therefrom for the purpose of inserting the supply-spool therein. Its sides are made of elastic material, preferably thin sheet metal, and are sprung inwardly, so as to bear against the edges of the roll of paper upon the supply-spool (indicated by the dotted lines in Fig. 6) and give the necessary tension thereto when drawn out over the registering-table E. In order to give the necessary length to the registering-table E and at the same time afford sufficient space for the insertion of the spool-holder D, the table is provided with a removable extension F, which extends partially over the chamber C and keeps the spool-holder D in place therein and is itself held in place when in position by the tongue *f*, which sets into the socket *e* on the under side of the table E. By making the extension F removable the effective length of the table E is increased without increasing the length of the register-casing, which would otherwise be necessary in order to insert and remove the spool-holder. From the supply-spool the slips upon which the record is to be made pass across the table E and between the traction-rolls G G'. The roll G is set in fixed bearings formed in the sides of the case, while the roll G' is set in movable bearings, being pressed against the roll G by the wire springs *g g*, which at one end are fixed in the table E, close to the sides of the case, and at the other are bent into a hook which passes over the axle of the roll G', the ends of which axle project into the open-slotted ears formed in the sides of the case A, one of which is shown at *h*. After passing between the rolls G G', such of the slips as are to be torn off pass out of the case, and the slip or slips

which are to be retained pass into the case and around the receiving-roll H. The roll H is removable, the ends of its axle resting in open grooves in the sides of the case A, 5 and being held in place when in position for use by the key or plug I, which is slipped into one of the grooves and bears against the axle of the roll H and is kept in position by the lid B, which, when closed, bears against 10 the head or top of the key or plug I. The roll H is rotated by means of the train of gearing K, operated by the thumb-piece L, which is supplied with a ratchet *k* and pawl *k'*, whereby a backward motion of the roll H 15 to draw off the slip wound thereon is prevented. When it is desired to remove the slip from the roll H, this is easily effected by opening the lid B and removing the plug I, when the roll H can be readily taken out and 20 the slip removed therefrom.

By means of our improvements we provide an autographic register which can be made of small size, being easily carried in the pocket, which is simple and convenient of 25 operation, and which cannot be readily tampered with to the end of removing or changing the record contained therein, advantages which will be readily apparent to those skilled in the art.

30 What we claim as new, and desire to secure by Letters Patent, is—

1. An autographic register provided with a removable roll-holder having resilient sides

inclined toward each other and adapted to bear against the outer edges only of the roll; 35 substantially as described.

2. An autographic register provided with a removable roll-holder having resilient sides inclined toward each other and adapted to bear against the outer edges only of the roll, 40 said sides having gudgeons within which the roll is loosely journaled; substantially as described.

3. An autographic register provided with a roll-holder within which the roll is jour- 45 naled, said roll-holder being made up of spring metal bent to form sides inclined toward each other from a connecting cross-piece, said sides being adapted to bear against the outer edges only of the roll; substan- 50 tially as described.

4. An autographic register provided with a chamber for the reception of a supply-roll, and a registering-table, having a removable section forming a continuation of said table 55 and extending partially over the chamber in which the supply-roll is contained; substantially as described.

In testimony whereof we have hereunto subscribed our names this 3d day of July, 60 A. D. 1894.

JOHN B. KING.

GEORGE W. CARHART.

Witnesses:

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