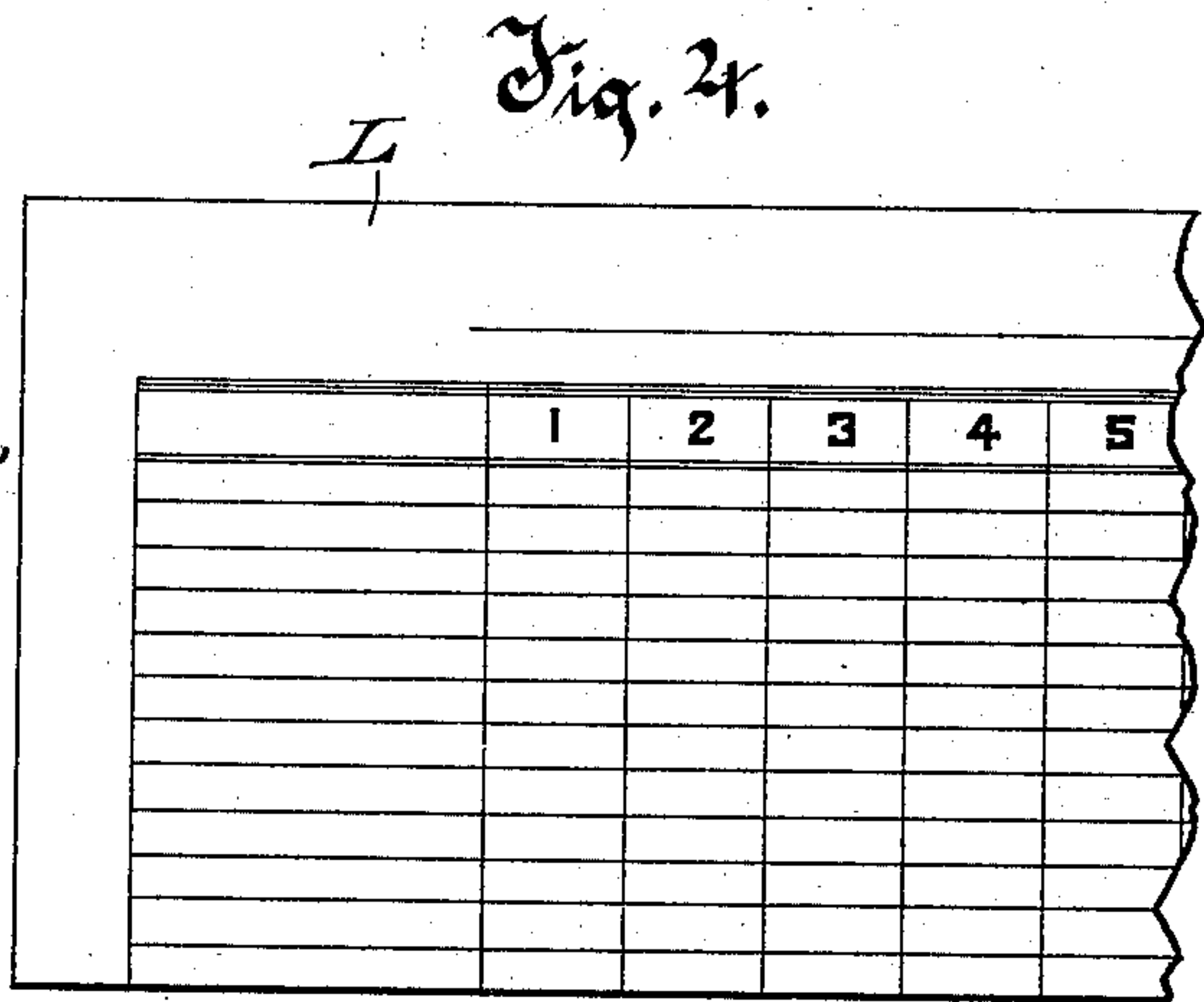
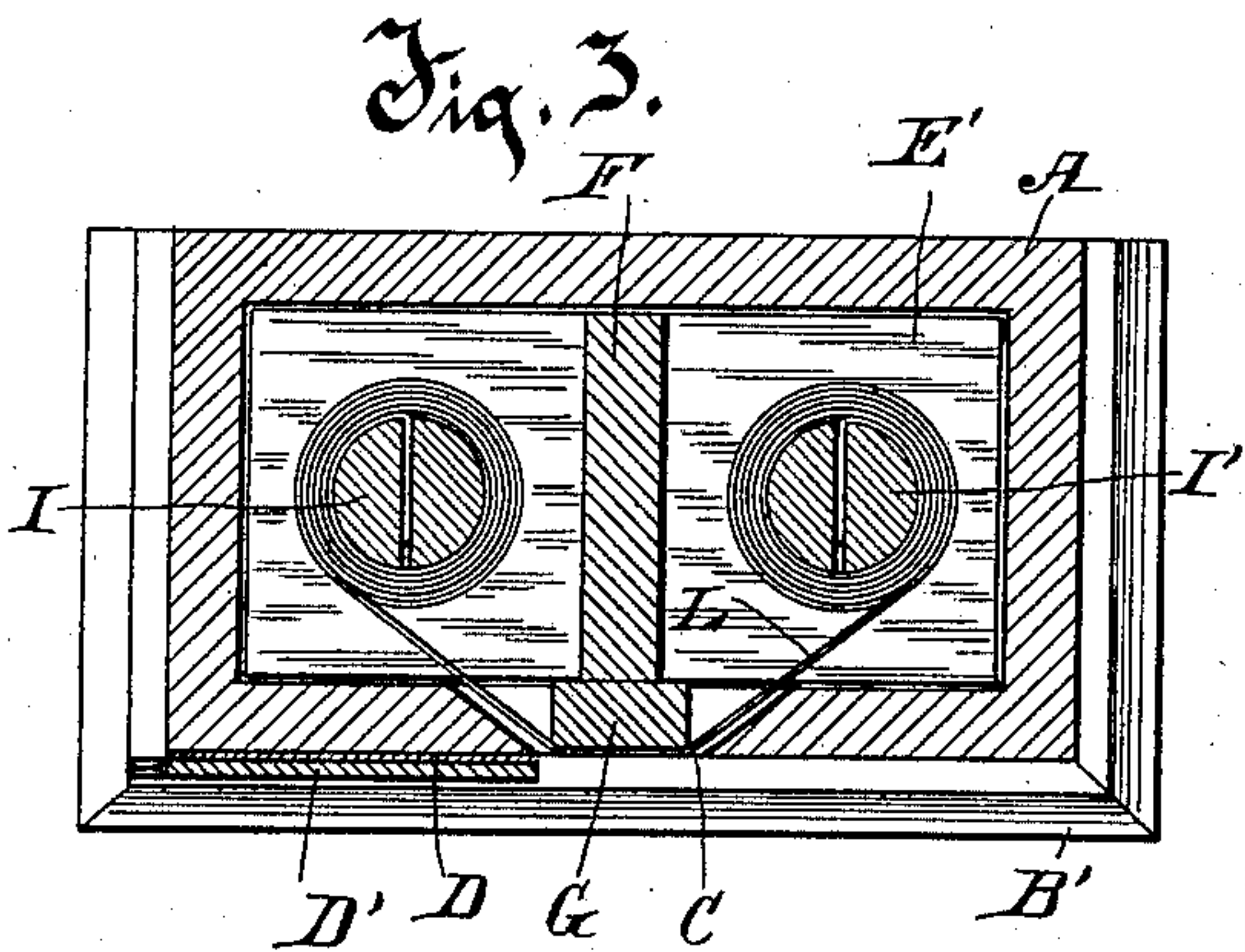
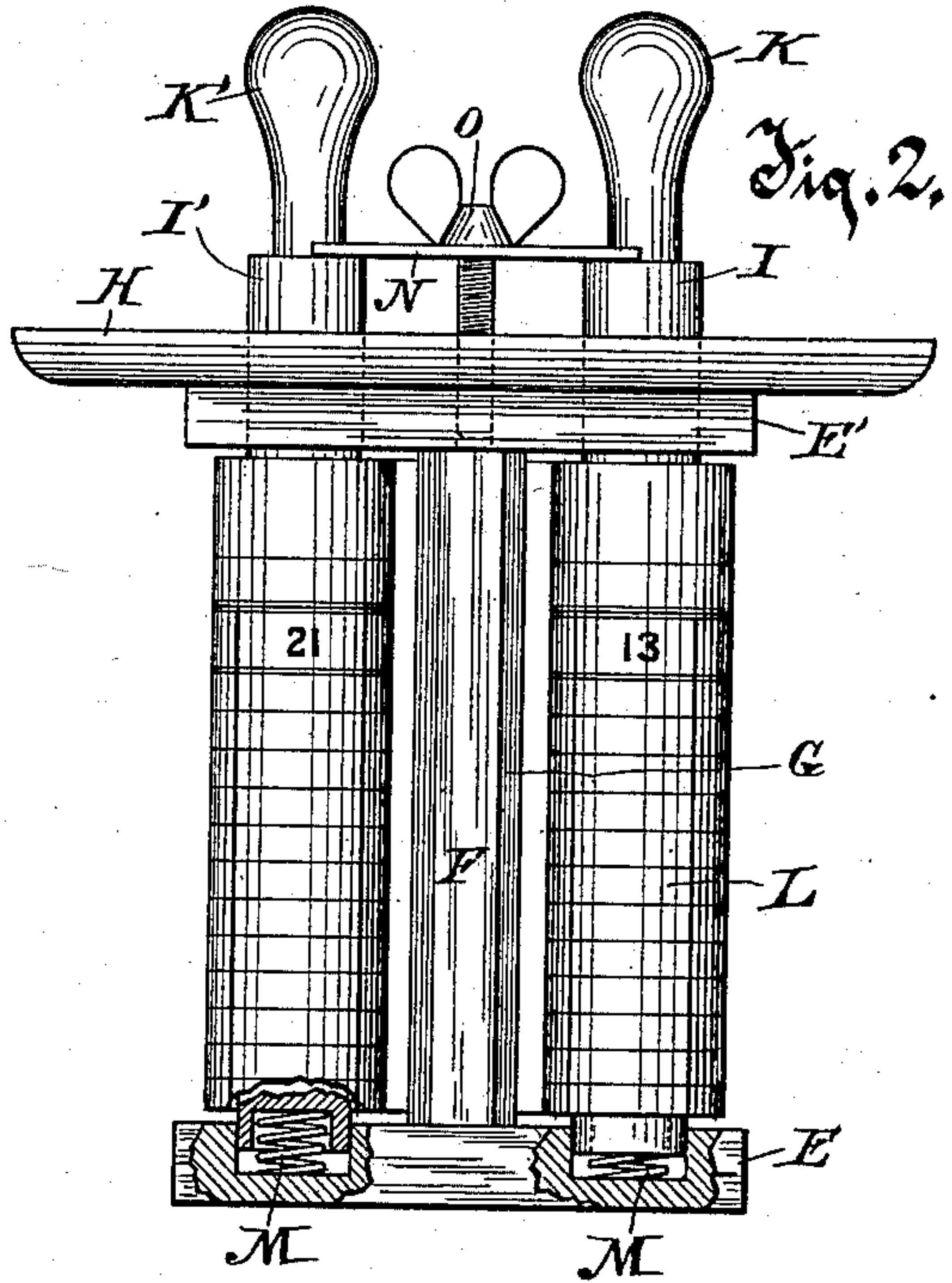
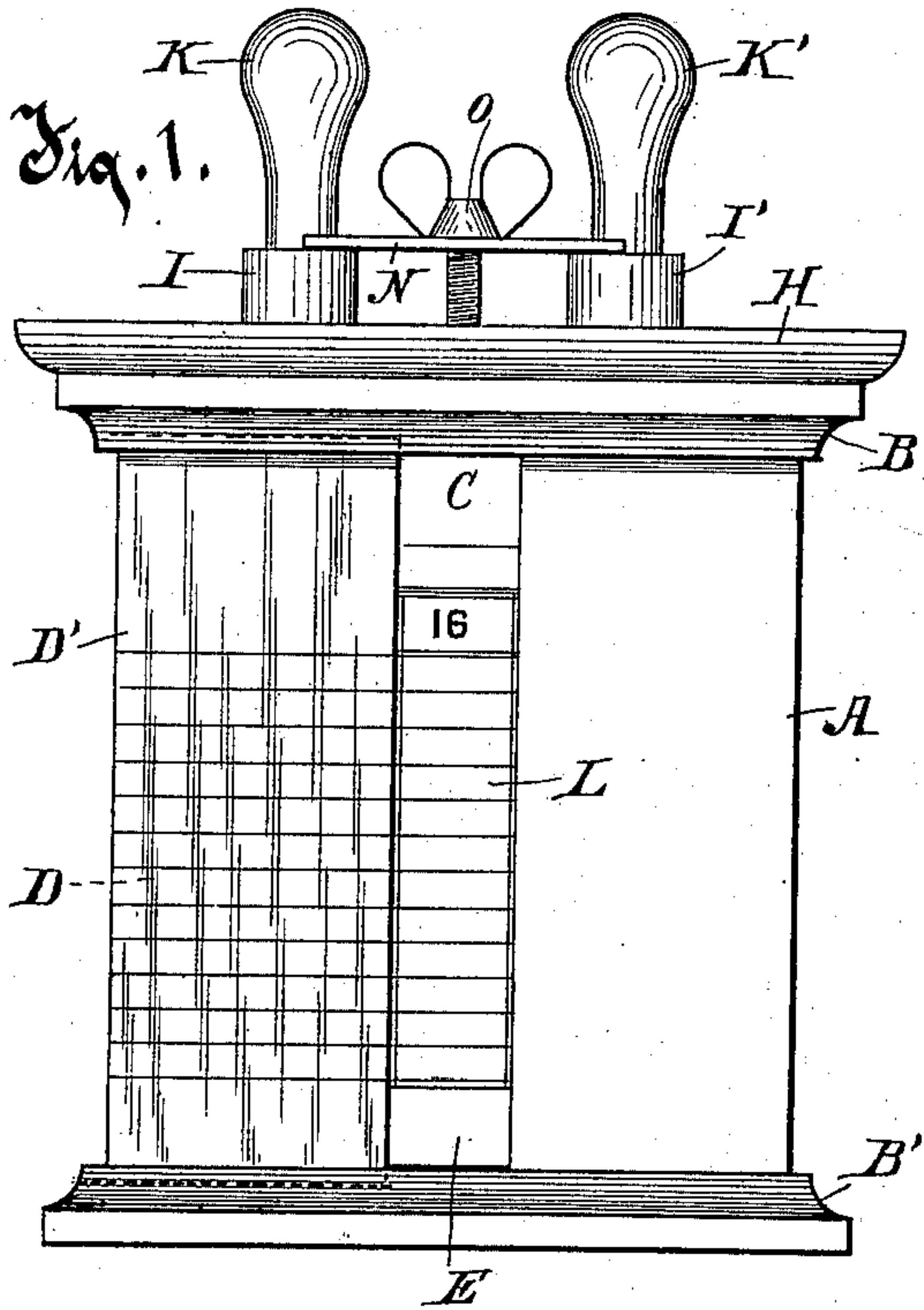


(No Model.)

F. CRAWFORD.
APPARATUS FOR MAKING AND PRESERVING RECORDS.
No. 596,484. Patented Jan. 4, 1898.



Witnesses.

C. H. Keeney
Anna C. Faust

Inventor.

Frank Crawford
By Benedict Morell
Attorneys.

UNITED STATES PATENT OFFICE.

FRANK CRAWFORD, OF LAKE MILLS, WISCONSIN, ASSIGNOR TO THE F. B. FARGO & COMPANY, OF SAME PLACE.

APPARATUS FOR MAKING AND PRESERVING RECORDS.

SPECIFICATION forming part of Letters Patent No. 596,484, dated January 4, 1898.

Application filed February 11, 1897. Serial No. 622,885. (No model.)

To all whom it may concern:

Be it known that I, FRANK CRAWFORD, of Lake Mills, in the county of Jefferson and State of Wisconsin, have invented a new and useful Improvement in Apparatus for Making and Preserving Records, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

The object of my invention is to provide an apparatus especially adapted for use in creameries to enable the attendant readily and conveniently to make entries each day of the amount of milk delivered to the creamery by the several patrons and to enable him to continue such record consecutively during all the days of a month or even throughout an entire season, if desired, in a continuous and tabulated form, which at the end of the term can be removed from the apparatus and otherwise preserved for future reference.

The invention consists of the apparatus, its parts and combinations of parts, as herein described and claimed, or their equivalents.

In the drawings, Figure 1 is a front elevation of the complete apparatus. Fig. 2 is a rear elevation of the interior frame withdrawn from the case, parts being broken away to exhibit interior construction. Fig. 3 is a transverse section just below the top cornice of Fig. 1, looking downwardly. Fig. 4 is a view of a fragment of the sheet of paper or flexible material on which the record is consecutively entered.

In the drawings, A is a case of suitable size and form to contain the movable and removable parts of the apparatus, the case being provided with a suitable base B' for supporting it in upright position and preferably with an ornamental cornice B. The case is open at the top and is provided with a vertical aperture C, centrally at the front from the base to the cornice. At one side of the aperture C a tablet or record-surface D is provided on the front of the case, which is preferably ruled horizontally, being adapted to receive thereon the names of the several patrons of the creamery. This tablet is conveniently and inexpensively constructed by affixing to the surface of the case, by means of paste, mucilage, or other convenient means, a strip or

sheet of paper suitably ruled for receiving the names of the patrons thereon.

A transparent covering D', preferably of glass or mica of thin plate-like construction, is placed over the tablet to protect it from being soiled or getting wet and to prevent the names written on the tablet from being accidentally erased. This transparent plate is conveniently made insertable and removable from its place by providing grooves or ways for it to slide in in the base B' and cornice B.

A frame insertable at the top in and removable from the case consists of the lower and upper horizontal bars E E', connected rigidly together by the medially-disposed standard F, to which the face-piece G is permanently secured, and the cap or cover H. In this frame two vertically-disposed rollers I I' are mounted revolubly, their lower extremities being footed in the cross-bar E and their upper extremities being journaled in the cross-bar E'. These rollers at their upper extremities preferably terminate in knobs K K', that are conveniently taken hold of by the attendant for rotating them. A strip or sheet of flexible material L, adapted to receive a record thereon, preferably of paper, is secured at its respective ends detachably to the rollers I I' conveniently by having the ends of the paper inserted in slots therefor in the rollers, the rollers being preferably slitted longitudinally, as shown in Fig. 3, therefor. The two parts of the rolls may be held together and thus made to clamp the paper by inserting a pin or screw transversely through the parts and through the interposed paper. The strip of paper is preferably substantially as wide as the length of the rolls between the bars E and E'. The paper is advisably ruled horizontally and transversely, so as to provide a series of longitudinal spaces for the entry thereon first at the left end of the strip of the names of the several patrons of the creamery and at the right thereof in consecutive space-columns of the amounts of milk delivered each day by said patrons, respectively, to the creamery, which said columns may be consecutive in number—1, 2, 3, &c., up to the entire number of days in a month—or when desired the sheet may be made of sufficient length to provide space-columns for all the days of all the

months of a creamery season, usually lasting from early in the spring until late in the fall, and these space-columns may in such case be numbered consecutively for the days of each month of the season, the several months being suitably indicated by the names or numeral designations thereof on the sheet. The sheet between the two rolls I and I' passes in front of the face-piece G, which face-piece affords a bearing for the sheet and enables the attendant to enter the figures thereon corresponding with the number of gallons or quarts or pounds of milk delivered to the creamery by the several patrons. The surface of the face-piece G is nearly or exactly flush with the face of the case A. It is not necessary that the names of the patrons should be written on the sheet L, but it is advisable that the names be written on the sheet, as well as in the corresponding horizontal space-columns on the tablet D. The writing the names of the patrons on the sheet L, in connection with the record of the amount of milk furnished by each one, secures a permanent and inseparable record of what each patron has supplied, in connection with his name, and the name of the patron on the tablet D is a convenient means for locating and correctly entering on the sheet L each day the amount of supply of milk furnished by the patron in the proper horizontal column of his name on the record-sheet, but on which after the sheet has been used for a few days his name will have disappeared within the case and become covered by the rolling up of the sheet. It will be understood that at first the sheet is principally wound on the right-hand roller I' and that as entries are consecutively made thereon the sheet is correspondingly unrolled from the roller I' and is rolled up on the roller I, bringing the vertical space-column for each day to the front on the face-piece G.

It will sometimes occur that the sheet L will fail to wind accurately on the rolls I I' and that therefore the horizontal space-columns on the sheet will not accurately register with the corresponding horizontal space-columns on the tablet D, and to remedy this trouble I preferably insert coiled-wire springs M M in the feet of the rollers I I', which normally lift them a little, and against the action of these springs the rolls are made adjustable by means of a transverse adjusting-bar N, that rides on shoulders therefor near

the upper extremities of the rolls I I' and is held adjustably to the frame in which the rolls are mounted by an adjusting-screw O, passing through the bar N and turning into the bar E'.

It will be understood that the record-sheet L can be removed from the apparatus at the end of a month or season by removing the roller-carrying frame from the case and unwinding the sheet from the rolls and removing its ends therefrom. A new sheet can then be inserted in the apparatus for continuing the record-entries.

What I claim as my invention is—

1. An apparatus for making and preserving records, comprising an inclosing case having a record-exposing aperture, a roller-supporting frame removable from the case, a face-plate on the removable frame, rollers mounted in the frame one on each side of the face-plate, and a sheet mounted on the rollers and passing over the surface of the interposed face-plate at an exposed or non-covered portion of the case.

2. The combination with a case provided with a permanent tablet and a record-exposing aperture, of a removable roller-supporting frame, a face-plate fixed on the frame, the surface of which plate when the frame is within the case, is substantially flush with the surface of the case, rolls mounted in the frame one on each side of the face-plate, and a record-sheet mounted and rolling on the rollers and passing over the surface of the intermediate face-plate, the record-sheet being provided with longitudinal space-columns registering with horizontal space-columns on the tablet on the case.

3. The combination with a case provided with a tablet having horizontal space-columns adjacent to a record-exposing aperture, of a removable frame provided with a face-plate, rollers mounted in the frame, adjusting-springs in the feet of the rollers, and an adjusting-bar riding on shoulders therefor on the rollers, and a set-screw holding the adjusting-bar to the frame and adjusting the rollers against the action of the springs.

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

FRANK CRAWFORD.

Witnesses:

F. M. SEAVER,

A. W. GREENWOOD.