No. 618,602 Patented Jan. 31, 1899.

J. D. DAVIS.

REGISTER.

(Application filed Apr. 25, 1898.)

(No Model.)

Fig. 1.

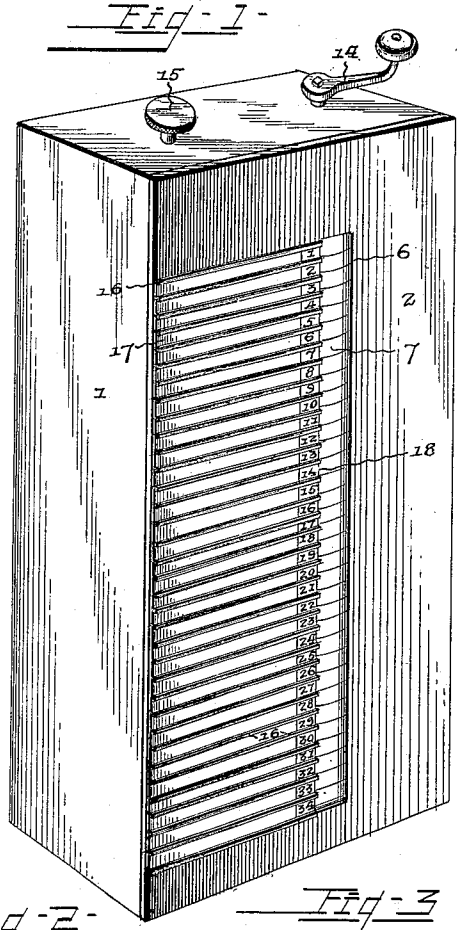


Fig. 4.

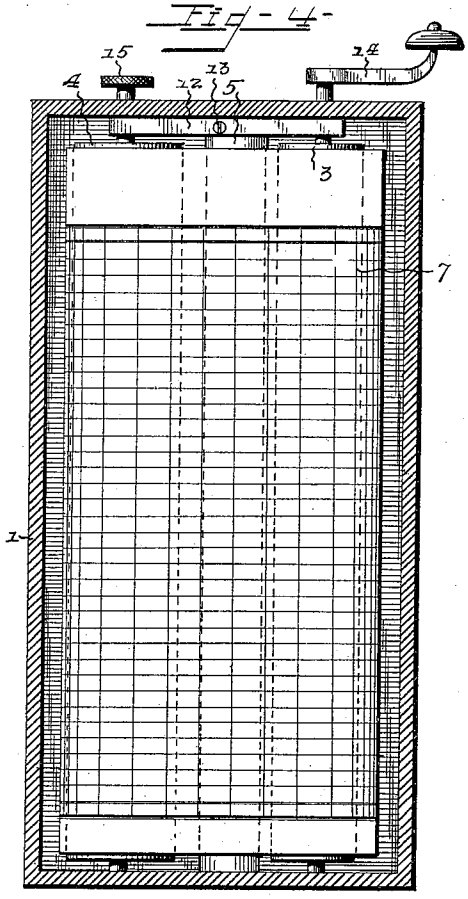


Fig. 2.

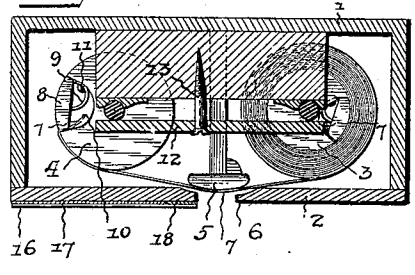


Fig. 3.

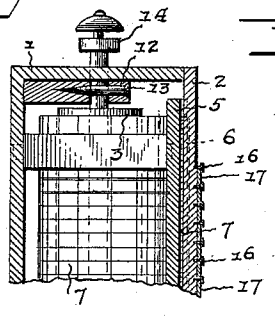
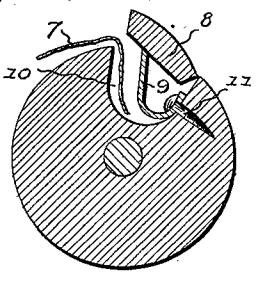


Fig. 5.



Witnesses:-

C. J. Young.

D. E. Hayes

James Delbert Davis, Inventor:-

By his Attorneys,

C. A. Snow & Co.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JAMES DEL. DAVIS, OF PEKIN, KANSAS.

REGISTER.

SPECIFICATION forming part of Letters Patent No. 618,602, dated January 31, 1899.

Application filed April 25, 1898. Serial No. 678,792. (No model.)

To all whom it may concern:

Be it known that I, JAMES DEL. DAVIS, a citizen of the United States, residing at Pekin, in the county of Reno and State of Kansas, have invented a new and useful Register, of which the following is a specification.

My invention relates to registers, and particularly to a device adapted for use in connection with creameries, dairies, &c., for facilitating the keeping of daily accounts of merchandise supplied to customers or patrons.

Further objects and advantages of this invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of a register constructed in accordance with my invention. Fig. 2 is a transverse section of the same. Fig. 3 is a partial horizontal section. Fig. 4 is a partial longitudinal section. Fig. 5 is a detail sectional view of one of the rollers, showing the paper-clamp displaced to provide for the insertion of the end of the tally-sheet.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

The casing 1 is provided with a removable top or cover 2, and mounted longitudinally in the casing are parallel supply and receiving rollers 3 and 4, arranged upon opposite sides of a table 5, which is located under the longitudinal slot 6 in the casing top or cover. These rollers are adapted to carry a tally-sheet 7, of which the extremities are attached, respectively, to the rollers by means of clamps consisting of hinged clutch-blocks 8 and actuating-springs 9. A plurality of springs 9 may be used in connection with each clutch block or strip 8, and opposite extremities of said springs are secured, respectively, to the under or inner surface of the block or strip and the floor of a longitudinal groove 10, which is formed in the roller, the side walls of the groove being inwardly convergent and the side edges of the block or strip 8 being slightly beveled to constitute a stop whereby the inward movement of the same under the influence of the springs 9 is limited. The springs may be and preferably are of metal and consist of narrow strips, of which the inner ends are secured to the floor of the recess by means of screws 11. In order to attach the end of a record or tally strip or sheet to the roller, the free unhinged edge of the block or strip 8 is elevated, as indicated in Fig. 5, the edge of the paper is introduced into the recess or groove 10, and the strip is released, whereupon said free edge thereof clamps the record strip or sheet against the wall of the groove.

The spindles of the rollers are extended at one end of the casing beyond the bearings in which they are mounted, and in operative relation therewith is arranged a tension-bar 12, engaged by an adjusting-screw 13, and it is obvious that by adjusting the screw the pressure of the tension-bar upon the spindles or trunnions of the rollers may be varied to offer more or less resistance to the rotation of the rollers. The spindle of the supply-roller is preferably fitted beyond the end wall of the casing with a crank 14, and the spindle of the receiving-roller is correspondingly fitted with a thumb-wheel 15 or the equivalent thereof. The crank 14 is preferably fitted for removal upon a key-seat formed on the projecting extremity of the roller-spindle.

Parallel with and contiguous to the inspection-slot 6, which is formed in the top or cover of the casing, is a card rack or holder, consisting of a plurality of T-heads 16, which are disposed perpendicular to the length of the said slot, the intervals between said guides forming seats for name-cards 17 and test-number cards 18 or any equivalent devices adapted to the particular use for which the register is designed.

From the above description it will be seen that the web, record-strip, or tally-sheet extends from the supply-roller over the convexed upper surface of the writing plate or table 5 within reach of a pencil inserted through the slot 6, whereby in the spaces between the rulings of the record or tally sheet such memoranda as it may be desired to preserve may be applied to the sheet opposite the name and test-number cards arranged in the rack. Obviously the name-cards are interchangeable, although in practice when the apparatus is used in connection with cream-

eries and dairies the test-number cards are arranged consecutively and are designed to occupy fixed positions.

To facilitate the changing of the cards, the ends of the seats opposite to the inspection-slot 6 are open, whereby the cards may be inserted into the seats through said open outer ends thereof.

It will be understood from the foregoing description that while for creamery purposes the casing should be arranged in an upright position, as illustrated in the drawings, it may be disposed in any other position to suit the use to which it is to be applied and that the mechanism as described may be used with advantage as a time-register for factories or any other places where employees serve by the day or hour, as it is necessary to keep a record of their time.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having described my invention, what I claim is—

1. A register having a casing provided in its front wall with a longitudinal inspection-slot, a card-rack located parallel with said slot and provided with cross-sectionally-dovetailed card-seats arranged respectively perpendicular to the same, and open for the insertion of cards at the ends opposite to said inspection-slot, supply and receiving rollers revolubly mounted in the casing upon opposite sides of the plane of the slot, a writing-plate disposed contiguous to the slot, a record-strip or tally-sheet carried by said rollers and traversing the writing-plate, and means for operating the rollers, substantially as specified.

2. In a register, the combination of a casing, parallel revoluble supply and receiving rollers arranged upon opposite sides of the plane of a slot in the front wall of the casing, and adapted to carry a record-strip or tally-sheet, a writing plate or table for supporting an intermediate portion of said record-strip or tally-sheet contiguous to the slot in the front wall of the casing, exterior means for imparting rotary motion to the rollers, a tension-bar bearing terminally upon the spindles or trunnions of the rollers to a point within the casing, and an adjusting-screw engaging said tension-bar for varying the tension of the pressure upon said spindles or trunnions, substantially as specified.

3. In a register, the combination of a casing, and tally-sheet-supporting devices including supply and receiving rollers, a roller being provided with a longitudinal groove, a clutch block or strip fitted in the open side of the groove exteriorly flush with the surface of the roller and hinged to one side wall of the groove, and a spring located within the groove and attached to the strip or block for yieldingly maintaining the latter in its normal position, to engage and clamp the extremity of a record-strip or tally-sheet, substantially as specified.

4. A roller for the purpose named, having a longitudinal groove, a hinged clutch block or strip fitted in the open side of the groove and exteriorly flush with the surface of the roller, and springs arranged in the groove and attached to the inner side of the block or strip and to the floor of the groove, for yieldingly maintaining the block or strip in its normal position, substantially as specified.

5. A roller for the purpose named, provided with a longitudinal groove having inwardly-convergent side walls, a strip fitted in the open side of the groove flush with the surface of the roller and having beveled side edges to conform to the positions of the grooved walls, said strip being hinged at one edge to the contiguous wall of the groove, and springs arranged within the groove, and secured at their opposite extremities respectively to the inner side of the strip and the floor of the groove, for yieldingly maintaining the strip in its normal position, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JAMES DEL. DAVIS.

Witnesses:
W. H. SANKEY,
H. L. TRUESDELL.