

C. VAN HORNE.

TABLE.

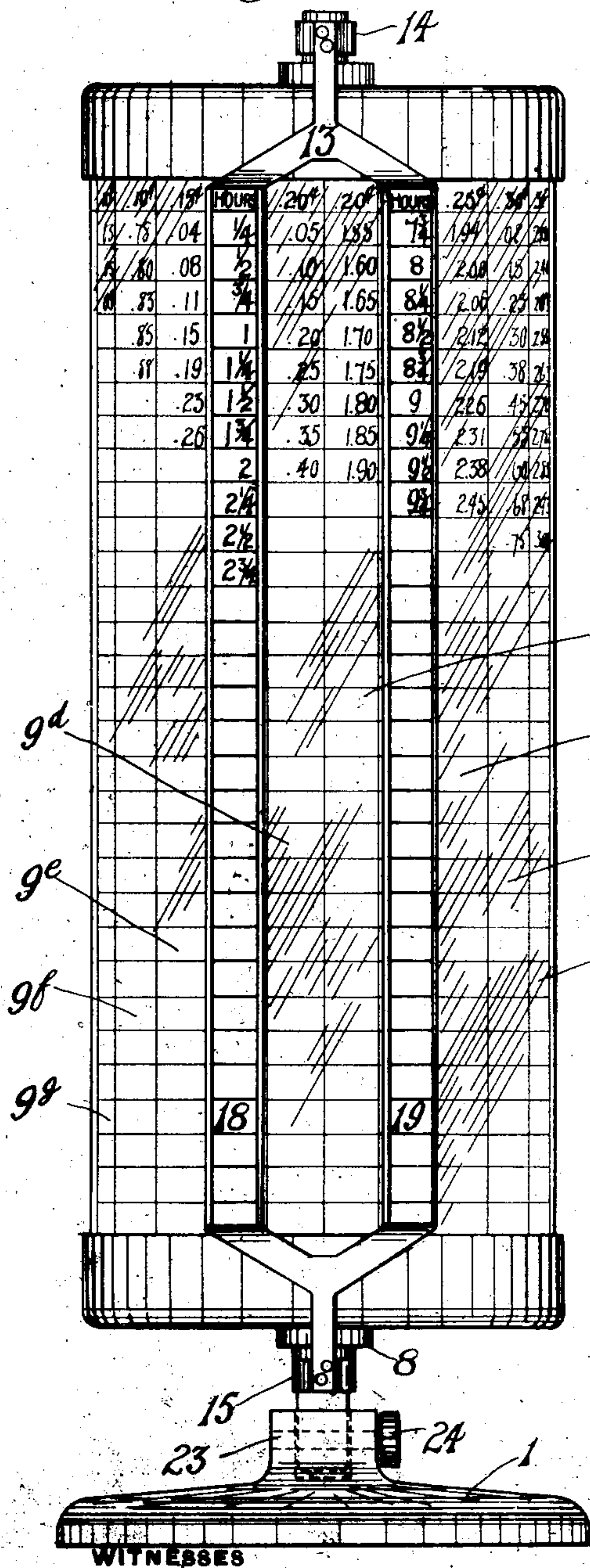
APPLICATION FILED SEPT. 3, 1908.

943,718.

Patented Dec. 21, 1909.

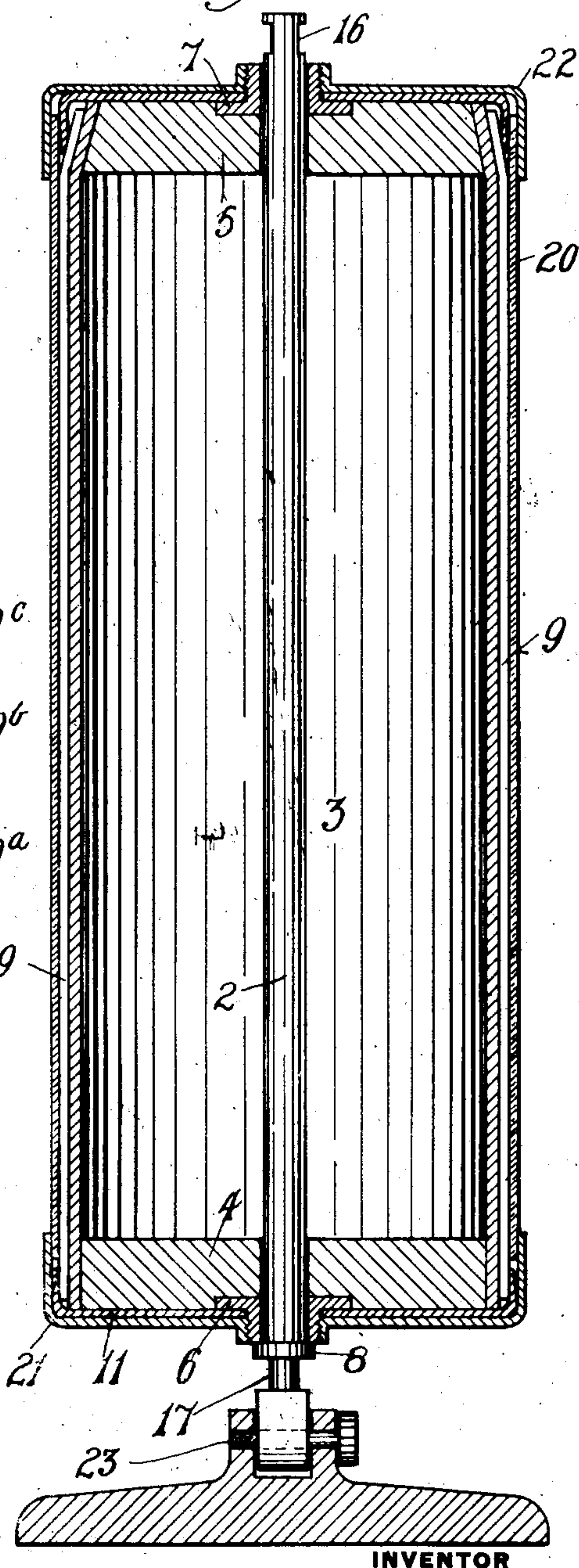
2 SHEETS—SHEET 1.

Fig. 1.



WITNESSES  
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Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

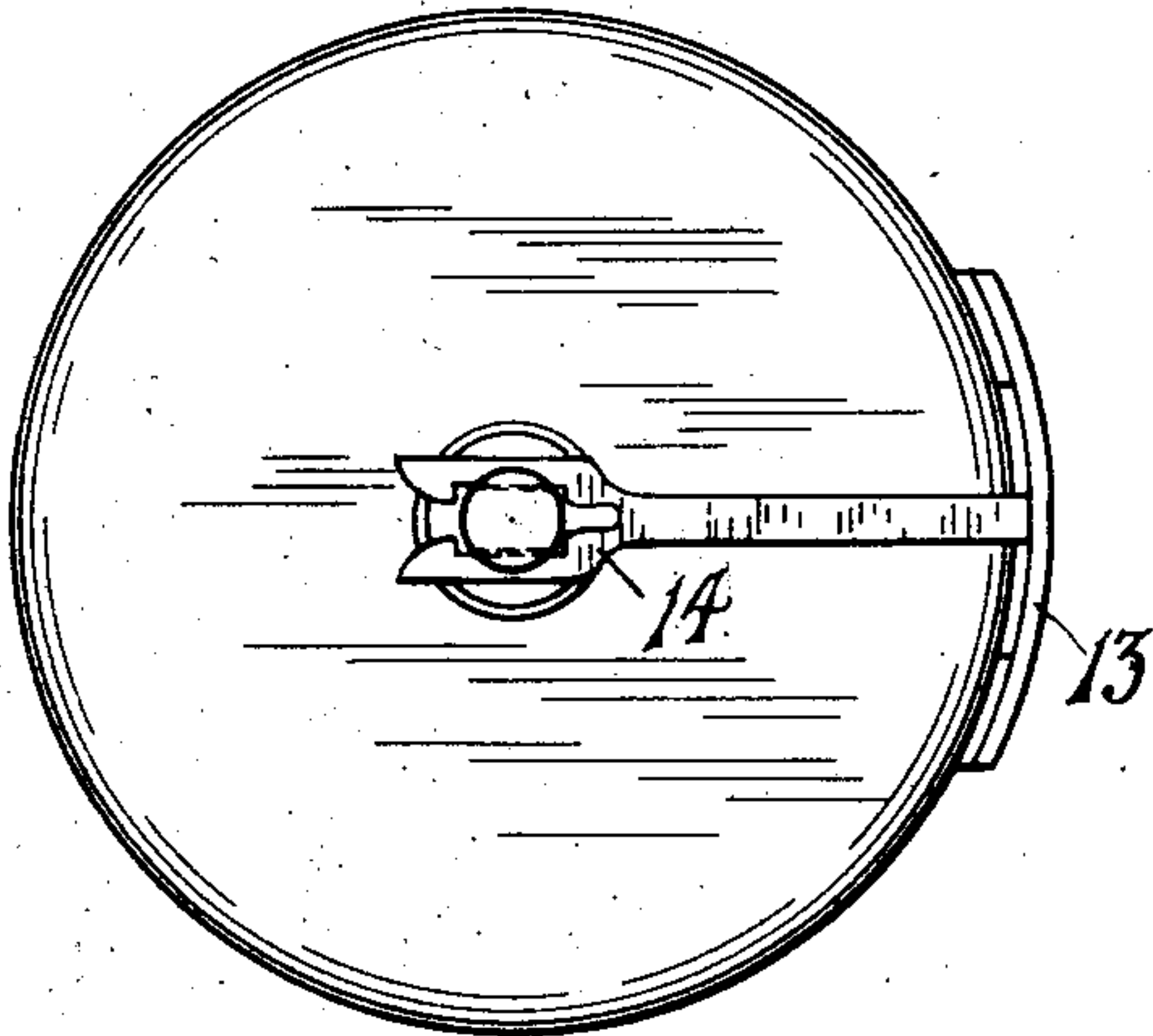


Fig. 5.

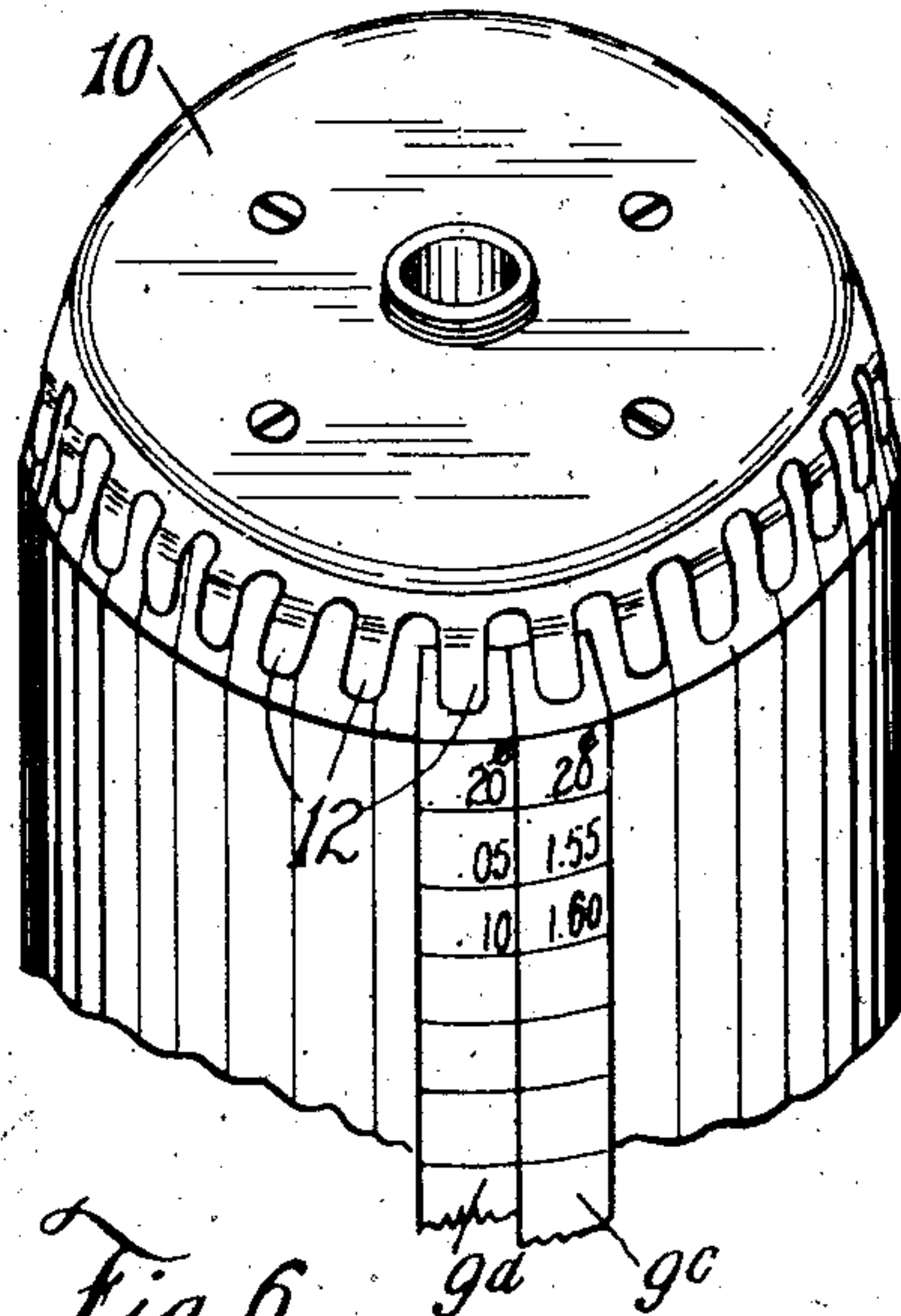


Fig. 4.

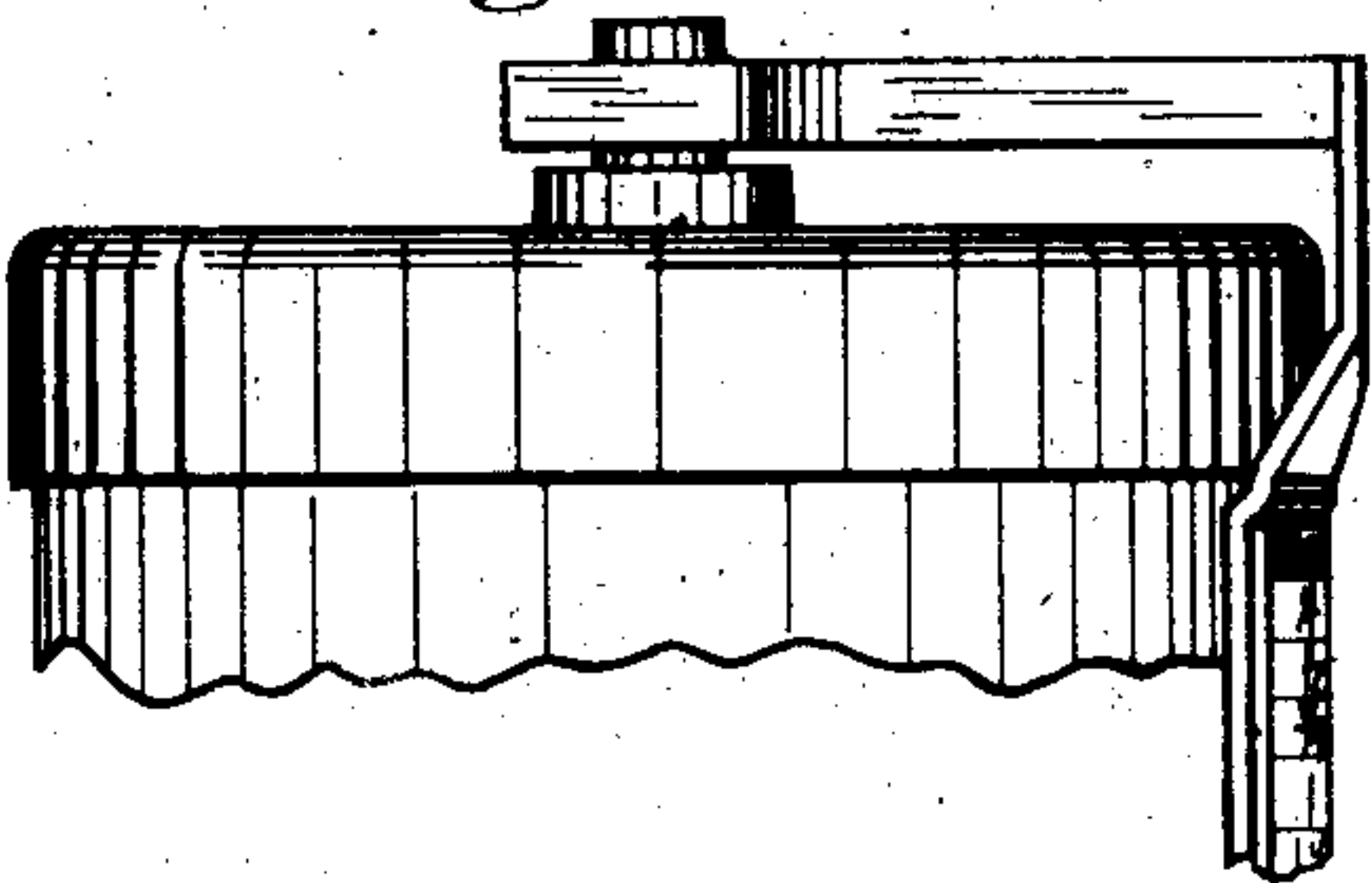


Fig. 6.

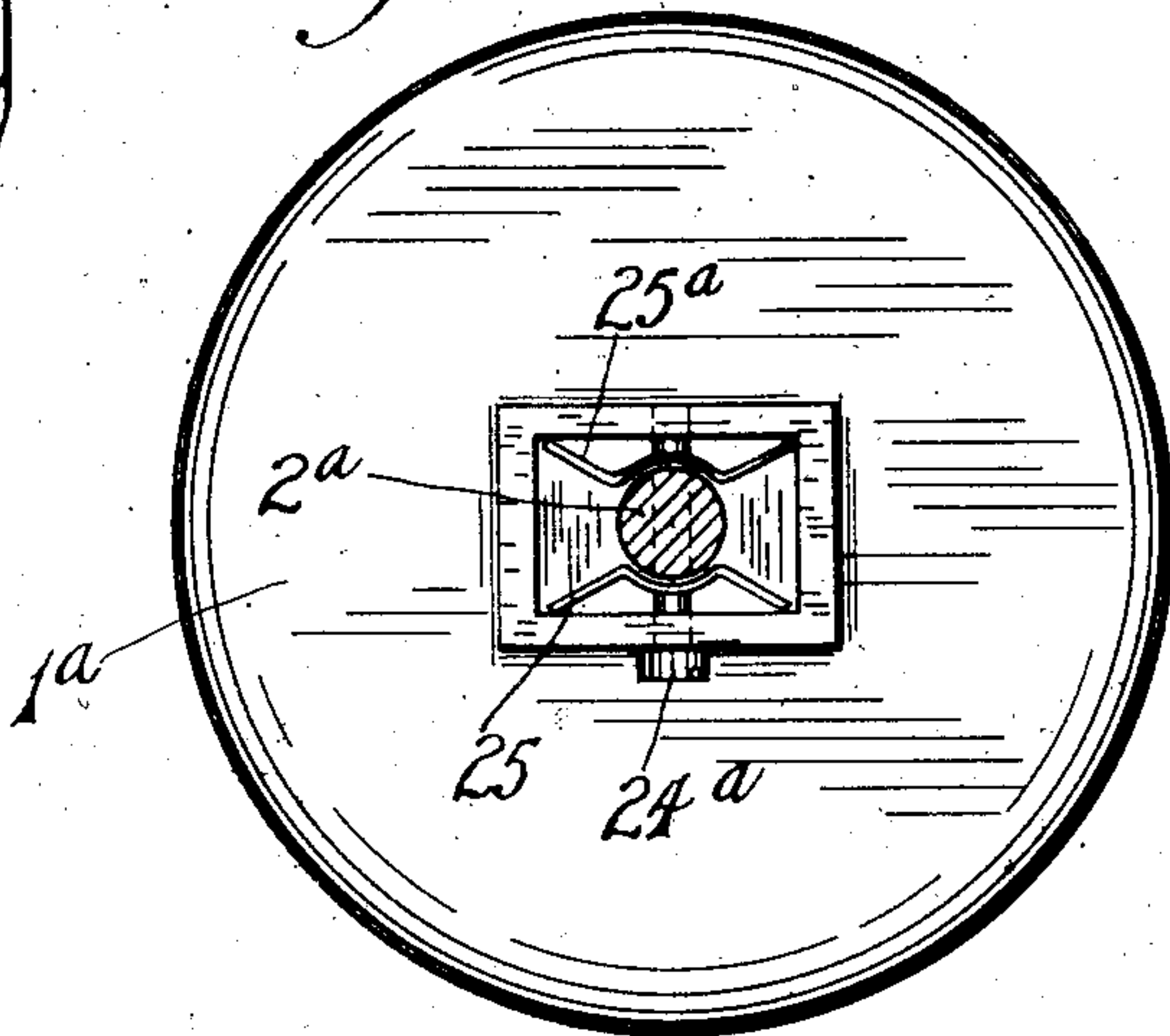
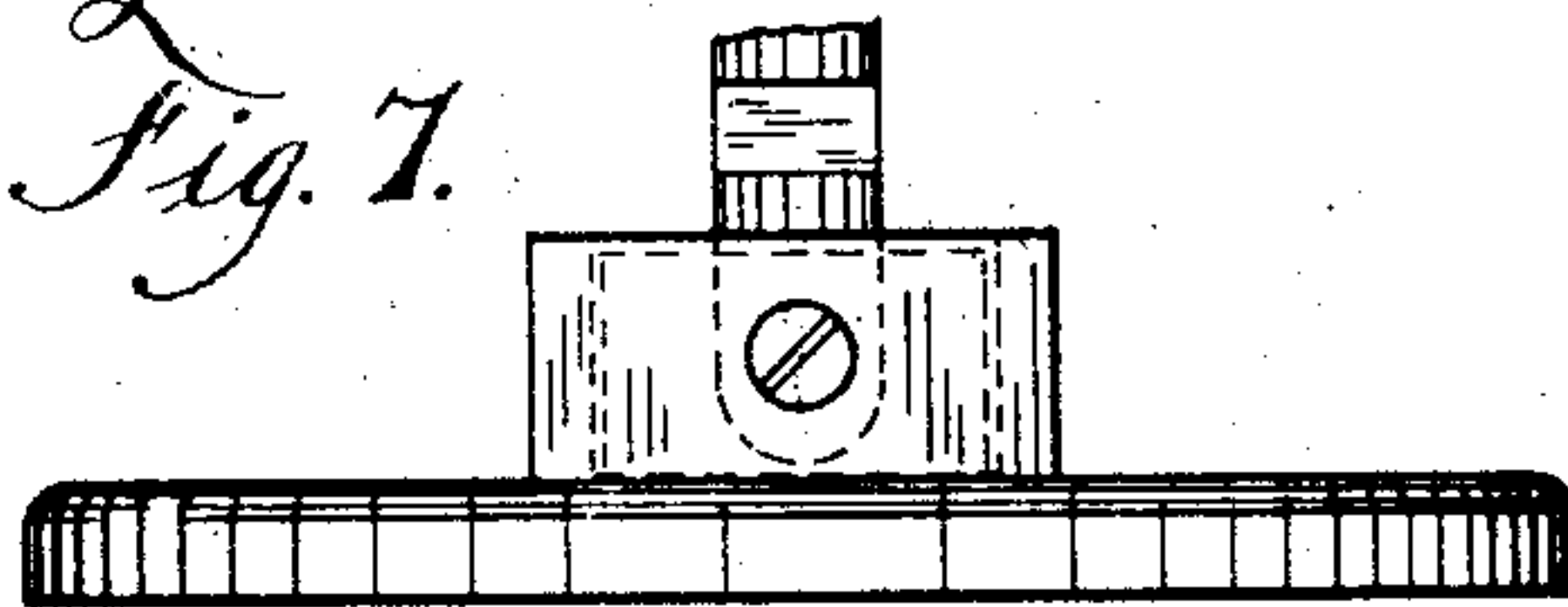


Fig. 7.



WITNESSES

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# UNITED STATES PATENT OFFICE.

CLIFFORD VAN HORNE, OF CHICAGO, ILLINOIS.

## TABLE.

943,718.

Specification of Letters Patent.

Patented Dec. 21, 1909.

Application filed September 3, 1908. Serial No. 451,495.

*To all whom it may concern:*

Be it known that I, CLIFFORD VAN HORNE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Tables, of which the following is a specification.

My invention relates to apparatus for carrying and displaying tabulated information and has for its objects the provision of a device of this character which is adapted for use as a wage table, one wherein the data or tabulations may be readily and conveniently inserted when needed, removed when obsolete or altered to meet changed conditions, the provision of a device of this character wherein a large number of tabulations on a given basis will be readily available, the provision of improved means for detachably supporting the strips carrying the tabulations and protecting them, and the provision of a device of the character referred to which will be convenient in operation and all the parts of which may be viewed with facility. The above and other objects which will hereinafter appear I obtain by means of a construction which I have illustrated in a preferred embodiment in the accompanying drawings wherein:—

Figure 1 is a vertical elevation of my device arranged for use as a wage scale;

Figure 2 is a central vertical section of the device illustrated in Figure 4;

Figure 3 is a plan view of the device of Figure 1;

Figure 4 is a side elevation of the upper part of the device illustrated in Figure 1;

Figure 5 is a detail of the means for holding the information strips in position;

Figure 6 is a plan view partly in section of a detail, illustrating a modified method of supporting the cylinder which carries the information strips; and—

Figure 7 is a side elevation of the device illustrated in plan in Figure 6.

While the device is obviously susceptible of use for many purposes other than as a wage scale, where tabulated data or progressive series of information items are convenient or useful, I have here illustrated my device for use as a wage table and particularly under such circumstances as require data for a large number of hours and divisions of hours, and to conveniently receive and exhibit the required amounts for a large number of different scales of wages. I have

found that in accomplishing this a vertical cylinder for the reception of the information strips is much more convenient and practicable and carries with much more availability a larger quantity of data than it is feasible to use in connection with a flat frame or back such as is illustrated in my co-pending application No. 432,060 filed May 11, 1908, or with a horizontal cylinder.

When prepared for use as a wage table or for other purposes wherein the required data varies from time to time the device comprises in its preferred form a rotatable cylinder for supporting the tabular data, a fixed scale-carrying member or members arranged adjacent to the periphery of said cylinder, a series of parallel information strips which are independent of each other and detachable from the cylinder, each of said strips indicating a wage rate with the amounts for each hour and the desired fractions of the hour corresponding to the scale member in conjunction with which it is to be used, a transparent covering cylinder or sleeve for preventing injury or accidental removal or displacement of the several strips and for preserving the legibility thereof, removable means for holding the protecting sleeve in position and means for holding the information slips in the desired position on the cylinder relatively to the wage scale. When it is found desirable to add a new rate to the table or to change a rate shown thereon, strips may be added or one of the strips removed and another substituted in lieu thereof. My device therefore as will be apparent from an examination of the drawings will be found more convenient in use than the books of computations of wage rates which are now in common use and which contain numerous rates which are of no interest to most concerns and are found often to lack the rates which are most needed under modern conditions. By the use of my invention any business concern needs to keep before it only those rates which it has occasion to use and such rates are readily available without the loss of time incident upon turning over many sheets carrying rates with which it is not at the time concerned. An additional benefit is to be found in the fact that scales according to unusual rates of pay may be readily prepared and inserted without undue loss of time and will thereafter be always conveniently at hand when required.



Referring now to the drawings and more particularly to Figures, 1 and 2, it will be seen that I provide a base, 1, which is arranged to support in a substantially vertical position a shaft or standard, 2, adapted to carry the supporting cylinder, 3. The cylinder, 3, in the present illustration is provided with the blocks, 4 and 5, for closing the ends thereof and in each block is inserted a bearing as indicated at 6 and 7, designed to permit the cylinder to rotate on the shaft, 2, the said shaft being provided with a collar, 8, adjacent to the bearing, 6, for the support of the cylinder and parts mounted thereupon. For the support of the several wage strips, 9, 9<sup>a</sup>, 9<sup>b</sup>, 9<sup>c</sup>, 9<sup>d</sup>, 9<sup>e</sup>, 9<sup>f</sup>, 9<sup>g</sup>, I provide the cylinder at both of its ends with a spider or cap such as 10, (see Figure 5), and 11, having a series of downwardly projecting spring fingers 12, each one of which is adapted to engage and hold in position the corresponding end of one of the information strips, 9, each of which information strips is provided at its top with a certain rate and therebeneath a column of amounts corresponding to various periods of time worked at the rate given at the top of the strip.

To support a scale or scales carrying series of hours or periods of time corresponding to the amounts in the strips, 9<sup>c</sup> and 9<sup>a</sup>, I arrange on the shaft, 2, a scale carrying member, 13, which as will be seen by reference to Figures, 1 and 3, is provided at both its top and bottom with spring forked ends, 14 and 15, adapted to engage the notches, 16 and 17, in said shaft in such a manner as to be non-rotatable thereon. This scale carrying member, 13, is preferably made with parallel sides, 18 and 19, spaced a sufficient distance apart to allow precisely two of the information strips, 9, (*e g.* the strips, 9<sup>c</sup> and 9<sup>a</sup>), to appear therebetween. The purpose of this arrangement is twofold: First, in order to insure that the desired strip is examined by the user; and, second, that the utility of the scale may be increased by inserting twice the number of hours or other periods of time that would be convenient were but a single scale used. For example, the left hand scale might be arranged to carry the hours and subdivisions thereof up to 70 hours, and the right hand scale the hours from 70 to 140 and the sub-divisions thereof. In this way all the divisions that are ordinarily required in figuring a pay roll can be made available and this without unduly increasing the height of the cylinder.

For the purpose of providing means for preventing injury or displacement of the information strips, 9, I provide a sleeve, 20 of celluloid or other transparent material through which the strip may be viewed, designed to cover the entire length of the strips. This sleeve is supported in position

relative to the cylinder by means of the cap, 21, at the lower end of the cylinder, and at the upper end of the cylinder an additional cap, 22, is provided to prevent vertical movement or accidental displacement of the sleeve.

In order that the data at the top and bottom of the cylinder may be more readily visible when required, I have provided the base, 1, with a hinged connection to the shaft, 2, as indicated at 23, so that the cylinder may be oscillated back and forth conveniently by the user. The amount of friction in the hinge may be regulated by means of the screw, 23.

For the same purpose I have provided the modification of the base illustrated in Figures, 6 and 7, wherein it will be noted that the shaft, 2<sup>a</sup>, in its engagement with the base, 1<sup>a</sup>, to which it is held by the screw, 24<sup>a</sup>, is held in vertical position by means of the springs, 25 and 25<sup>a</sup>, and may be tipped forward and backwards against the resistance of the springs, 25, and 25<sup>a</sup>, which will limit its movement and hold it in desired position.

The method of using my improved table will appear from the foregoing description, and when the caps, 21 and 22, have been removed from their engagement with the bearings, 6 and 7, and the protective sleeve, 20, lifted off of the cylinder, any addition, substitution or change in the information slips that may be desired may be made. Strips carrying obsolete tables or rates may be removed, and new strips may be added or substituted, or corrected strips inserted, etc. and the parts reassembled, when all will be held in their proper relative position and the strips prevented from becoming soiled, torn or otherwise injured. Other advantages of my invention will appear to those skilled in the art to which it pertains.

Having thus described my invention and illustrated its use what I claim as new and desire to secure by Letters Patent is the following:—

1. In combination in a device of the class described, a base, a non-rotatable shaft hinged to the base, means for maintaining the shaft in upright position, a cylinder mounted rotatably upon the shaft and provided with longitudinally extending tables, and a scale extending longitudinally of the cylinder adjacent its surface and secured to the shaft.

2. In combination in a device of the class described, a base, a non-rotatable shaft hinged to the base, yielding means for maintaining the shaft in upright position, a cylinder mounted rotatably upon the shaft and provided with longitudinally extending tables, and a scale extending longitudinally of the cylinder adjacent its surface and secured to the shaft.

3. In combination in a device of the class



described, a base, a shaft hinged to the base and non-rotatable with respect to the base, a releasable catch for maintaining the shaft in upright position, a cylinder mounted rotatably upon the shaft and provided with longitudinally extending tables, and a scale extending longitudinally of the cylinder adjacent its surface and secured to the shaft.

4. In combination in a device of the class described, a cylinder provided with removable information strips, a transparent cylinder fitting over the strips for maintaining them in position, and means for maintaining the transparent cylinder releasably in position.

5. In combination in a device of the class described, a cylinder provided with removable information strips, a transparent cylinder fitting over the strips for maintaining them in position, and caps fitting over the ends of the cylinders for maintaining the transparent cylinder in position.

6. In combination in a device of the class described, a cylinder, a plurality of removable information strips extending longitudinally thereof, and a cap secured to the end of the cylinder provided with a plurality of spring fingers for yieldingly engaging the ends of the strips.

7. In combination in a device of the class described, a cylinder having the edge portion at one end beveled off, a plurality of removable information strips extending longitudinally of the cylinders with their ends upon the beveled off portion, and a cap secured to the end of the cylinder and having inclined fingers over the beveled edge engaging the ends of the strips.

8. In combination in a device of the class described, a cylinder having the edge por-

tion at one end beveled off, a plurality of removable information strips extending longitudinally of the cylinders with their ends upon the beveled off portion, and a cap secured to the end of the cylinder and having inclined spring fingers over the beveled edge engaging the ends of the strips.

9. In combination in a device of the class described, a cylinder having the edge portion at one end beveled off, a plurality of removable information strips extending longitudinally of the cylinders with their ends upon the beveled off portion, a cap secured to the end of the cylinder and having inclined fingers over the beveled edge engaging the ends of the strips, and a transparent retaining cylinder extending over the strips.

10. In combination in a device of the class described, a cylinder having the edge portion at one end beveled off, a plurality of removable information strips extending longitudinally of the cylinder with their ends upon the beveled off portion, a cap secured to the end of the cylinder and having inclined fingers over the beveled edge engaging the ends of the strips, a transparent retaining cylinder extending over the strips, and caps secured on the opposite ends of the first mentioned cylinder with their edges extending over the edges of the transparent cylinder.

In testimony whereof I have hereunder signed my name in the presence of the subscribed witnesses.

CLIFFORD VAN HORNE.

Witnesses:

PAUL CARPENTER,

ALFRED Y. ANDREWS.