No. 654,674. Patented July 31, 1900.

G. M. RICKARD.

COMPUTING DEVICE.

(Application filed Mar. 15, 1899.)

(No Model.)

Fig. 1

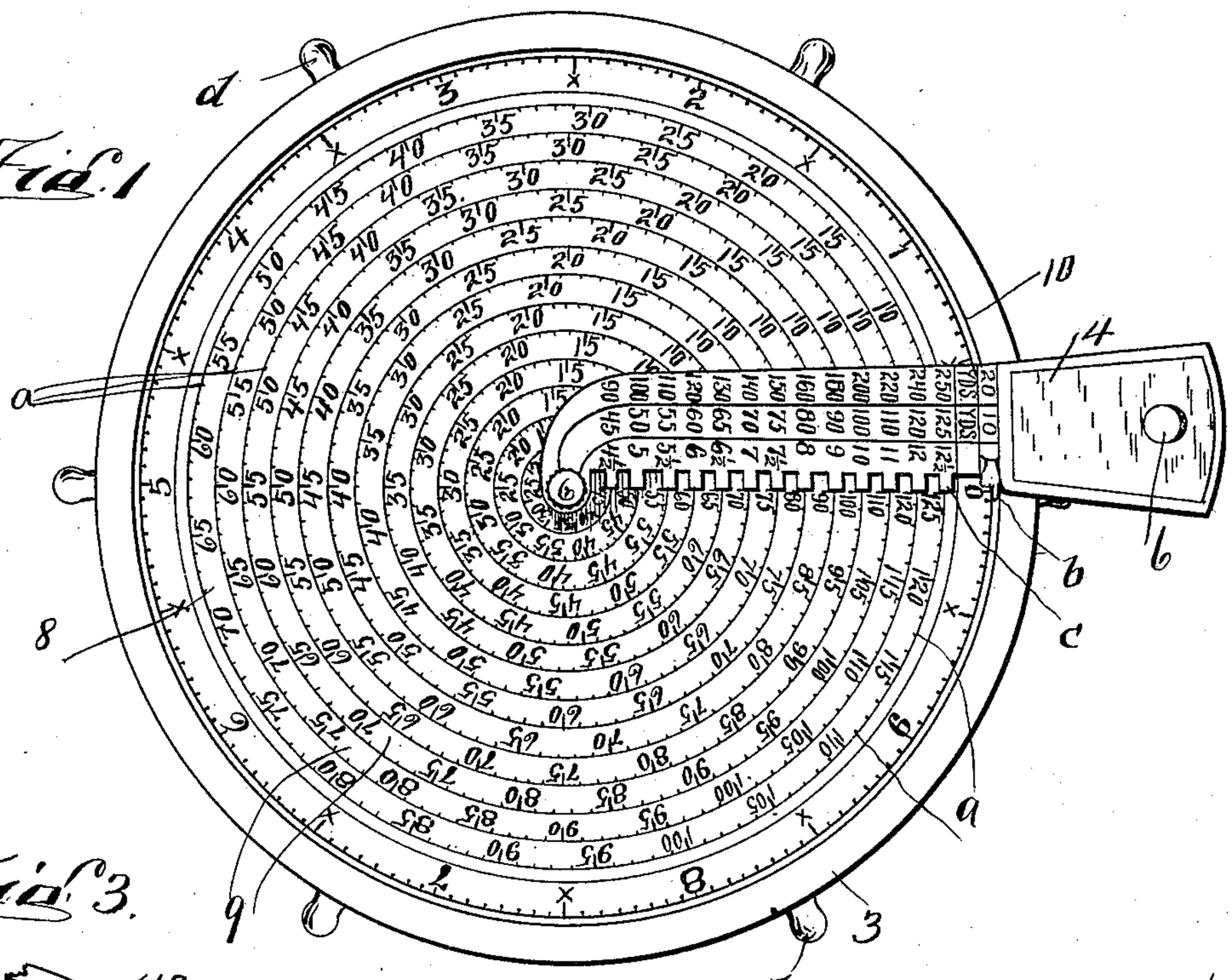


Fig. 3.

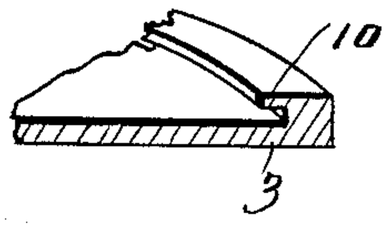
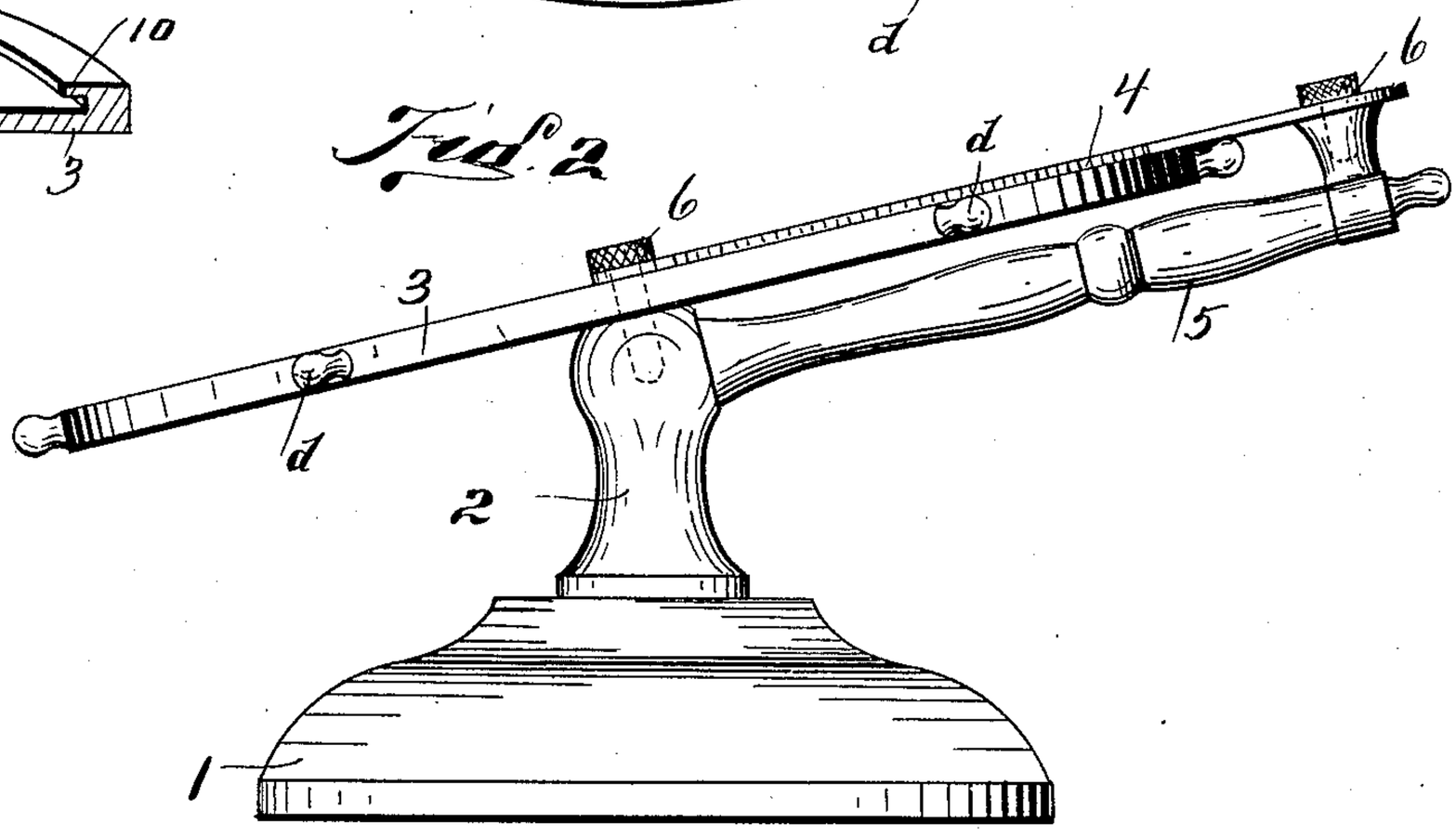


Fig. 2



Witnesses.
C. Sedgwick
J. A. Jeffers

Inventor.
George M. Rickard
By Fred W. Bond
Atty.

UNITED STATES PATENT OFFICE.

GEORGE M. RICKARD, OF ALLIANCE, OHIO.

COMPUTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 654,674, dated July 31, 1900.

Application filed March 15, 1899. Serial No. 709,195. (No model.)

To all whom it may concern:

Be it known that I, GEORGE M. RICKARD, a citizen of the United States, residing at Alliance, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Computing Devices; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon, in which—

Figure 1 is a top view of the disk, showing the location of the indicator with reference to said disk. Fig. 2 is an edge view showing the support. Fig. 3 is a view showing a portion of the disk-body.

The present invention has relation to computing devices; and it consists in the different parts and combination of parts and in the arrangement hereinafter described, and particularly pointed out in the claim.

Similar numerals and letters represent corresponding parts in all the figures of the drawings.

In the accompanying drawings, 1 represents the base or support, which may be of the form shown or it may be of any other desired form, as its only object is to provide a suitable support for the disk and its different parts. The base 1 is provided with the post 2, to the top or upper end of which post is pivotally attached the revolving disk 3.

For the purpose of holding the indicator-plate 4 in proper position with reference to the disk the arm 5 is provided, which arm is securely attached to the post 2 and is provided with the short post or support 6, to the top or upper end of which is connected the top or upper end of the indicator 4. The inner end of the indicator is connected to the disk and to the post 2 by means of the screw 6 or its equivalent, the connection being such that the disk 3 will be free to revolve upon the post 2.

The disk 3 is provided upon its top or upper face with the price-plate or covering 8, which may be formed of paper or other suitable material, and, as shown, it is divided into concentric circles or spaces 9, which are located and arranged substantially as shown in the drawings.

The outer circle or space upon the dial is divided into one hundred and sixty equal parts, and ten divisions are numbered from "0" to "9," and between each two adjacent numbers are formed sixteen spaces, which spaces represent sixteen parts of the unit. The inner circles are divided to represent dollars and cents, and each dot *a* represents one cent, and the figures represent the cost or total value of any unit, as a yard of muslin or a yard of any other article of any unit. When the numeral "1" on the outer circle is brought under the finger-point *b*, the teeth *c*, formed upon the indicator 4, will show the value of the article desired to be purchased.

The indicator 4 is provided with three or more columns of figures. In the drawings three columns are shown, the right-hand column being the price-column, and in use the price-column should be of a different color from the other columns upon the indicator—for instance, the two left-hand columns may be black and the price or right-hand column may be red or any other distinguishing color. The middle column of figures upon the indicator 4 represents ten times the cost price and the left-hand column represents twenty times the cost price.

In use let it be understood that ten yards of goods at twelve and one-half cents per yard are desired to be purchased. The revolving disk 3 is turned to the right until the figure "9" in the outer circle is brought past or to the right of the indicator and the "0" in said outer circle brought directly under the finger-point *b*, at which time the tooth on the indicator 4 at or just in front of the twelve-and-one-half-cent cost price will point to one dollar and twenty-five cents, which is the total amount of ten yards or units at twelve and one-half cents per yard or unit. The object of turning the disk so as to bring the "0" directly under the finger-point *b* is to place the dial in position for commencing the computation, and when the dial is in that position it can be turned to indicate the number of units purchased.

In order to compute fractions, let it be understood that one and one-sixteenth yards are to be purchased at a given price. The dial is turned to the right until the figure "1" is brought past and the first dot or fractional

part on the outer circle is brought directly under the finger-point *b*, which will show the value of one and one-sixteenth yards at any given price upon the dial and directly under the proper tooth of the indicator.

For convenience in computing the circles of figures upon the dial represent five and the multiple thereof. In the drawings the indicator is located directly over the first division of five, but it will be understood that said figures are located and arranged substantially the same as others shown upon the dial.

For the purpose of providing a convenient way of rotating the dial by hand the pins *d* may be connected to the periphery of the dial, but this is not necessary for providing a convenient way for rotating the dial.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

As an improved article of manufacture, a computing device, consisting of the combination of a rotatable disk or dial, having upon its face concentric circles, the outer circle divided and the divisions numbered and the numbered divisions subdivided, the inner circles upon the dial provided with numbers representing cost and having the multiple of five, and a fixed indicator located over the dial, said indicator provided with a price-column, and amount-columns and the point *b* located over the periphery of the outer circle, and the teeth *c* located upon the cost side of the indicator and between the inner concentric circles, substantially as and for the purpose set forth.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

GEORGE M. RICKARD.

Witnesses,
J. A. JEFFERS,
F. W. BOND.