

No. 876,045.

PATENTED JAN. 7, 1908.

H. F. DUNN.
COMPUTING CHEESE CUTTER.

APPLICATION FILED APR. 27, 1904.

2 SHEETS—SHEET 1.

Fig. 1.

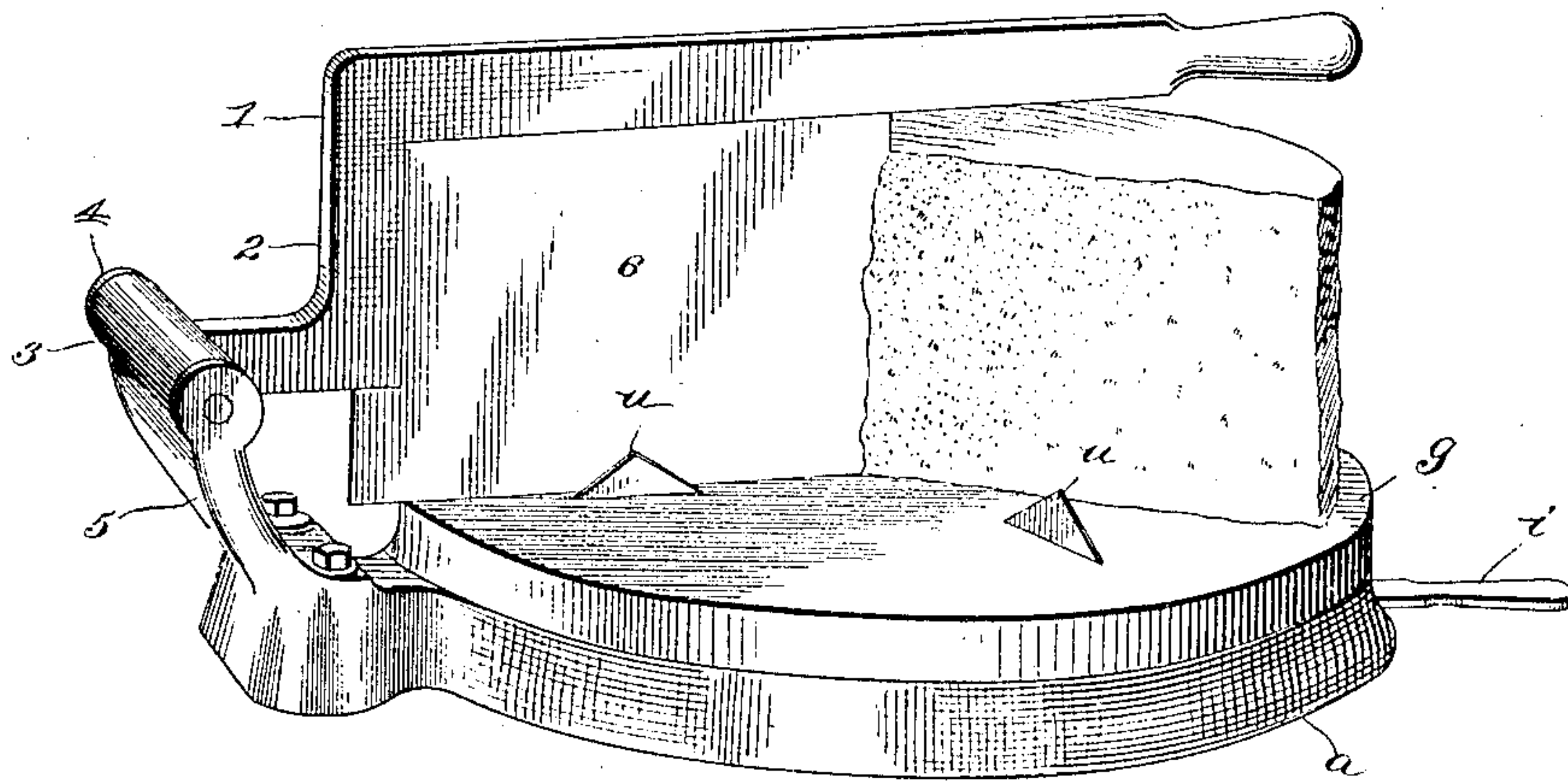
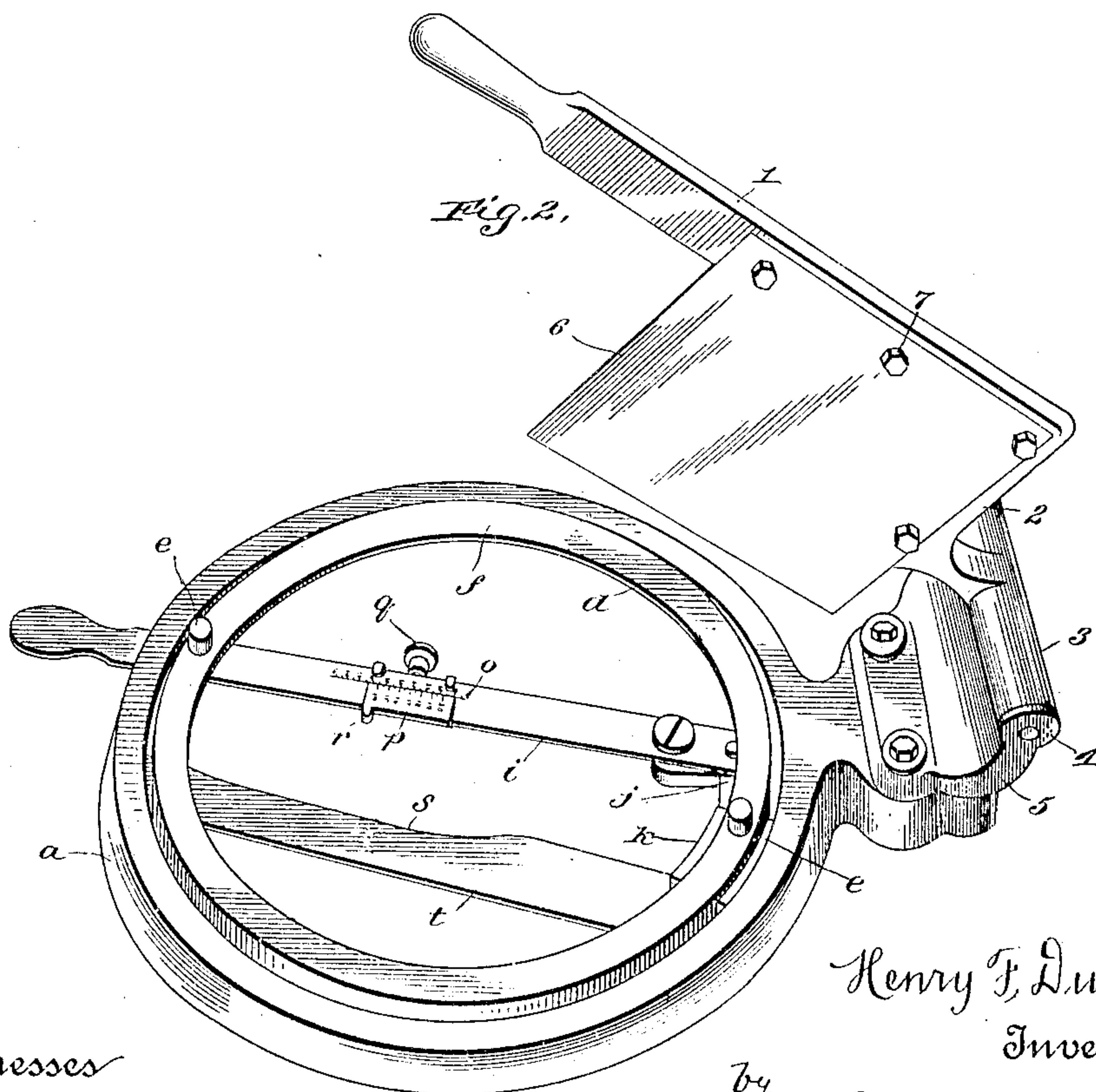


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

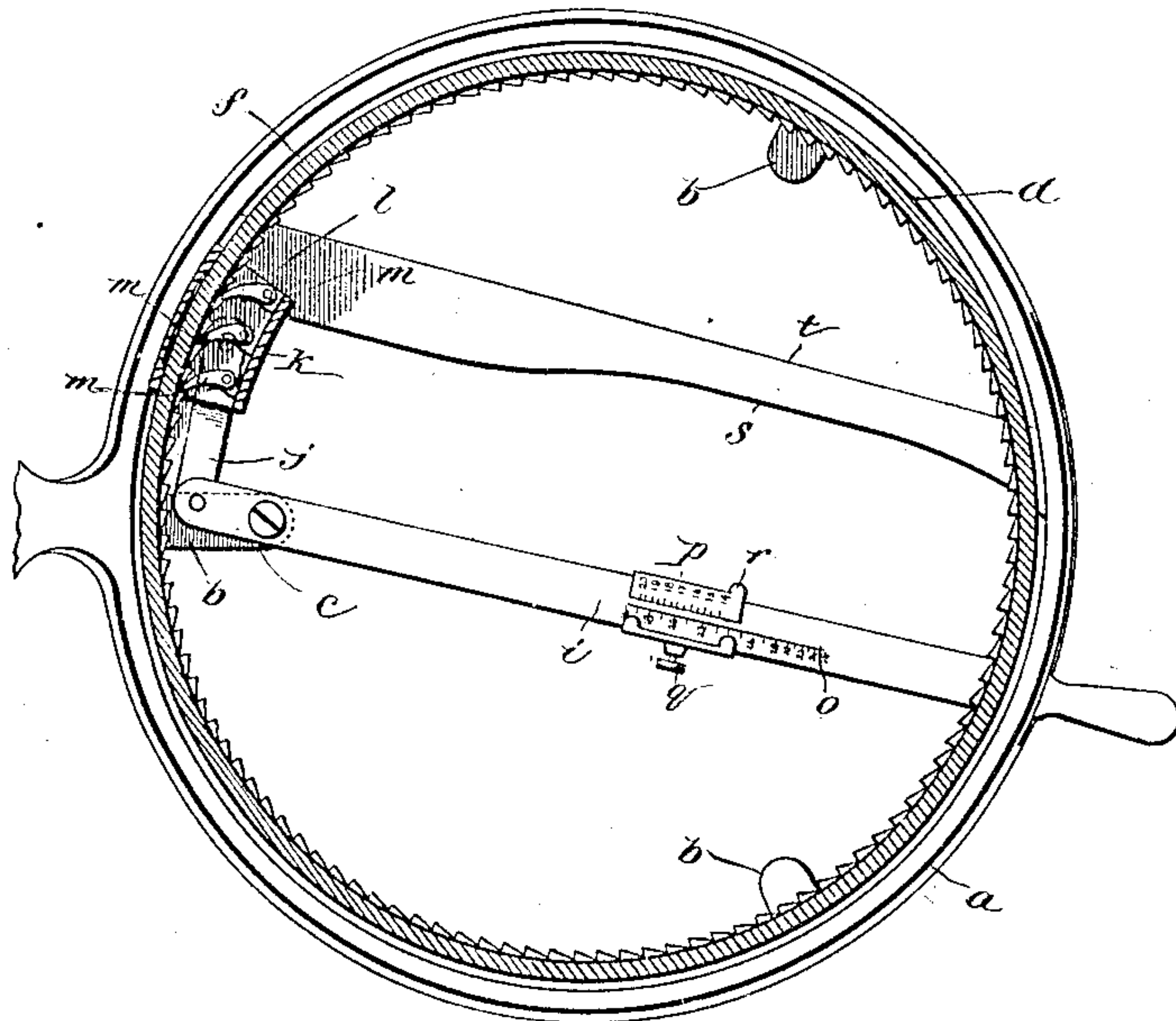


Fig. 4.

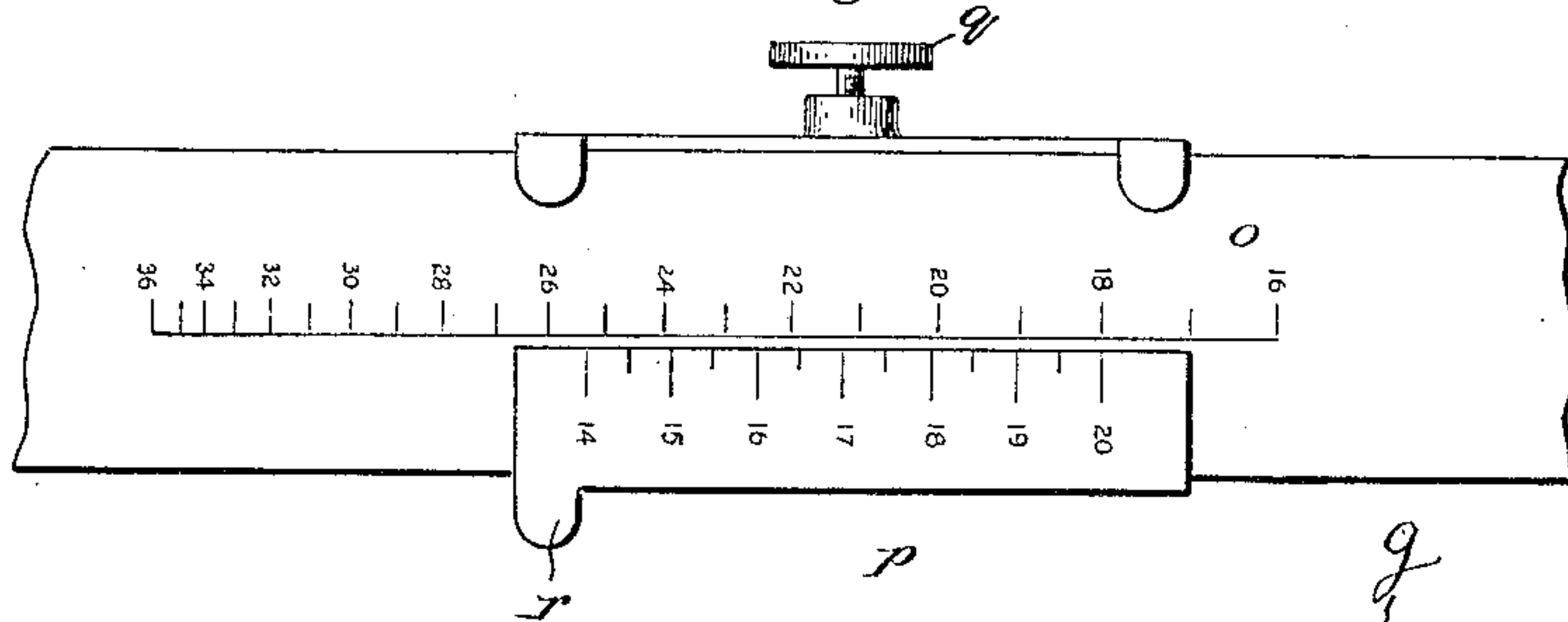


Fig. 5.

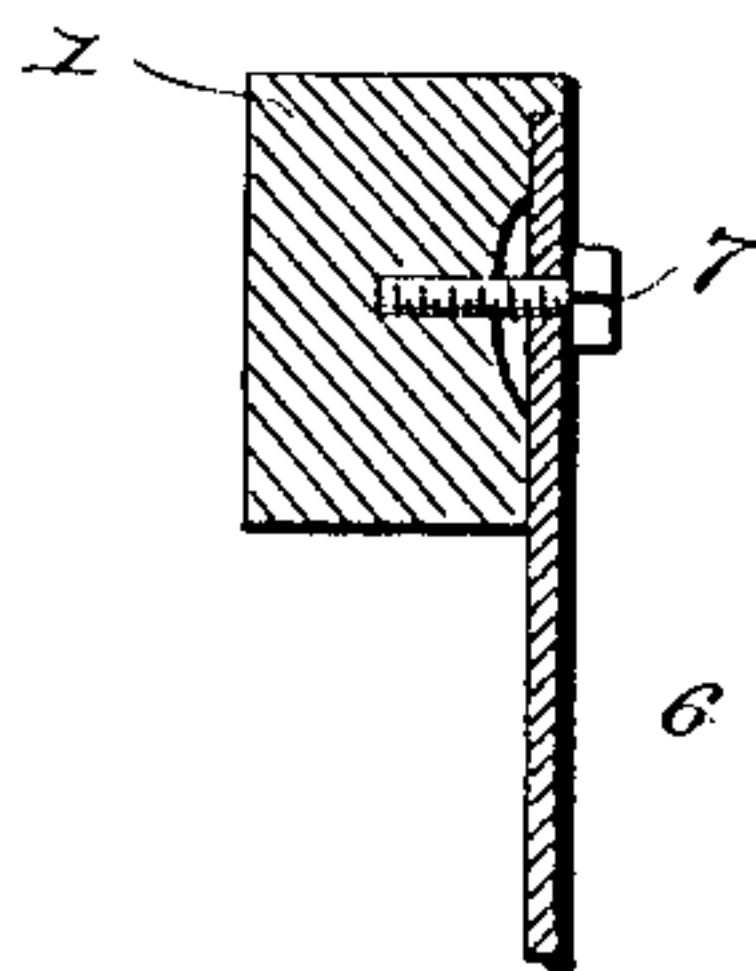
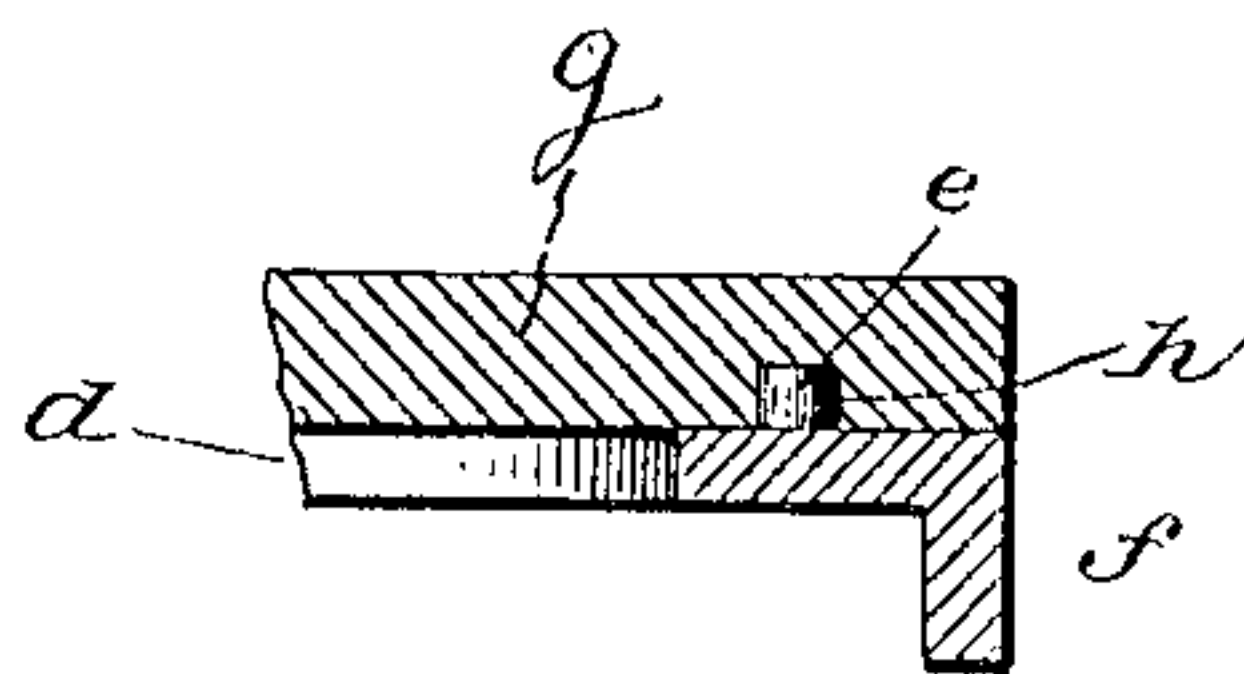


Fig. 6.



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UNITED STATES PATENT OFFICE.

HENRY F. DUNN, OF ELWOOD, INDIANA, ASSIGNOR TO DUNN MANUFACTURING COMPANY,
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COMPUTING CHEESE-CUTTER.

No. 876,045.

Specification of Letters Patent.

Patented Jan. 7, 1908.

Application filed April 27, 1904. Serial No. 205,188.

To all whom it may concern:

Be it known that I, HENRY F. DUNN, citizen of the United States, resident of Elwood, in the county of Madison and State of Indiana, have made a certain new and useful Invention in Computing Cheese-Cutters; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the invention, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective view of the invention. Fig. 2 is a similar view with table *g* removed. Fig. 3 is a horizontal section through depending flange *f*. Fig. 4 is a detail view of the scales upon the lever *i* and slide *p*. Fig. 5 is a detail sectional view illustrating the manner of securing the knife blade to its lever. Fig. 6 is a detail sectional view illustrating the connection of the cheese table with the annulus *d*.

The invention relates to certain new and useful improvements in aliquot part computing cheese cutters, and it consists in the novel construction and combinations of parts, as hereinafter set forth.

In the accompanying drawings illustrating the invention, the letter *a* designates a supporting frame or base, having inward and upward projecting lugs *b*, one of which forms part of inward fulcrum extension *c*, located at the rear of the machine. Fitting over and supported by the lugs *b* is a movable ring bearing or annulus *d* of angle form in cross section, its horizontal flange carrying opposite rigidly attached studs *e* and its depending flange *f* having an annular series of ratchet teeth upon its inner surface. The cheese-carrying table *g* has recesses *h* in its bottom in which fit the studs *e*, so that the table may be readily lifted from the annulus for inspection of parts below the same.

i is a horizontally working lever for rotating the cheese table or carrier and extending diametrically across and underneath the same, being fulcrumed near its rear end and intermediately of its length to the extension *c* of the base, said lever having a link connection *j* with ratchet box *k*. This ratchet box has a groove *l*, within which fits the depending flange *f*, said box having therein one or

more spring pressed pawls *m*, which engage the teeth of flange *f*. The ratchet box will thus follow flange *f* in its movement, and play will be reduced to a minimum. The handle or outer end of lever *i* projects through a limiting slot in the front of the base forward of the machine, and upon operation of such lever the cheese carrying table will be rotated to a degree depending upon the extent of movement of the lever, which movement is regulated as follows—*o* designates a scale upon the lever *i*, graduated for total weights of different cheeses from 16 to 36 inclusive, and *p* is a slide having movement over said scale, and having marked thereon the prices per pound at which the cheese is to sell from 14 to 20 cents inclusive. Other prices and weights can of course be used. A set screw *q* serves to fix the adjustment of slide *p* upon scale *o*. This slide is provided with a depending stop pin *r*, which is adapted to contact with the inner face or edge *s* of the buffer plate *t*, this edge being of proper curved contour to vary the movement of the lever to the desired extent.

I will now proceed to describe my cutting device. This consists of a vertically swinging knife lever 1, having a rear right angular extension 2, provided at its termination with a T-form head 3, which is pivoted between the branches 4 of upward extension 5 of the base *a*. This knife lever and its rear extension are rabbeted upon one side to receive the cutting blade 6, which fits neatly the rabbet in such wise as to be well braced by the walls thereof. Securing screws 7 are employed to fasten lever and blade together, the lever being grooved on a line with said screws for better clamping effect, the screw holes being located at the bottom of such groove.

In the operation of my invention, the cheese table is lifted from the studs *e*, and the slide *p* adjusted until the proper price per pound graduation registers with the total weight of the cheese upon the scale *o*. The cheese total weight is calculated but once and for the entire cheese, and the adjustment referred to is made but once for each cheese. An operation of the lever *i* will then move the cheese table and cheese the proper degree to measure off a piece of the cheese corresponding to a certain value, five cents worth being the unit of movement usually adopted. Pointed spurs *u* of angular plate

form are carried by the cheese table to fix the cheese thereto.

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

1. In a device for cutting cheese and the like into portions, a knife, a rotary cheese-support, a lever for actuating the rotary cheese-support, a scale on said lever, and means coöperating with said scale for regulating the movement of the cheese-support so as to cut uniform pieces from various cheeses.

2. In a device for cutting cheese and the like into portions, a knife, a rotary cheese-support, a lever for actuating the rotary cheese-support, a scale on said lever, and means movable with reference to the scale for regulating the influence of the throw of the lever upon the movement of the cheese-support.

3. In a device for cutting cheese and the like into portions, a knife, a rotary cheese-support, a lever for actuating the rotary cheese-support, a stationary weight scale on the lever, and means movable on the lever with reference to the weight scale for regulating the influence of the throw of the lever upon the movement of the cheese support.

4. In a cheese cutter, the combination of a base, a rotary cheese table thereon, a cutting means, table adjusting means including a lever working in a horizontal plane, a cheese total scale having total weight graduations for different cheeses, a price scale slide, and means operating in connection with said total scale and price scale slide for varying the operation of said table adjusting means, substantially as specified.

5. In a cheese cutter, the combination of a base, a cheese table thereon, a cutting means, table adjusting means including a lever working in a horizontal plane and fulcrumed near one side of said base and provided with a handle at the opposite side thereof, a cheese total scale having total weight graduations for different cheeses, a price scale slide, and means operating in connection with said total scale and price scale slide for varying the operation of said table adjusting means, substantially as specified.

6. In a computing cheese cutter, the combination of a cheese table, a cutting means, a cheese total scale having total weight graduations for different cheeses, table adjusting means including a fixed member and a movable member, and a price scale slide having a stop and movable over said cheese total scale for varying the range of movement of said movable member with relation to said fixed member, substantially as specified.

7. In a computing cheese cutter, the combination of a cheese table, a cutting means, a cheese total scale having total weight graduations for different cheeses, table adjusting means including a movable member carry-

ing said cheese total scale, a fixed member having a curved inner surface or edge, and means movable over said scale for varying the range of movement of said movable member with relation to said fixed member, substantially as specified.

8. In a computing cheese cutter, the combination with a base of a cheese table thereon, a cutting means, a table rotating lever, a cheese total scale having total weight graduations for different cheeses upon said lever, a price per unit slide having movement upon said scale, and means carried by the base and coöperating with the slide for varying the operation of said lever in accordance with the adjustment of said slide, substantially as specified.

9. In a computing cheese cutter, the combination of a cheese table, a cutting means, table adjusting means including a limiting member and a lever member, one of said members having a surface of varying contour, a cheese total scale having total weight graduations for different cheeses carried by the other of said members, and a price per unit scale carrying a stop, one of said scales being movable with relation to the other to vary the operation of said table adjusting means, substantially as specified.

10. In a computing cheese cutter, the combination of a cheese table, a cutting means, a cheese total scale having total weight graduations for different cheeses, table adjusting means including a fixed member and a movable member carrying said cheese total scale, one of said members having a curved surface the other a price scale slide operating in connection with said total scale and having a stop for varying the movement of said movable member with relation to said fixed member, substantially as specified.

11. In a cheese cutter, the combination of a cheese table, a cutting means, said table having a flange provided with an annular series of teeth, a table rotating lever fulcrumed intermediate the center of the table and said annular series of teeth, a ratchet box having a groove engaging said flange and inclosing a pawl or pawls for engagement with said teeth, and a link connecting said lever and box, substantially as specified.

12. In combination, a member mounted for revoluble movement, an operating lever, a stop carried by the lever and adjustable longitudinally thereof, and a stop member arranged transversely of the path of movement of the stop, for limiting movement of said operating lever, substantially as specified.

13. The combination with a revoluble member, of a non-radial stop member, and an operating lever having an adjustable tooth or lug for engaging the stop member at different points in the length of the latter, substantially as specified.

14. The combination with a revoluble member, of a non-radial stop member, an operating lever, and an adjustable tooth or lug carried by said operating lever and adapted to engage the stop member at different points in the length of the latter, substantially as specified.

15. The combination with a revoluble member, of a stop member non-radial to said revoluble member, an operating lever extending transversely under said revoluble member, and an adjustable tooth or lug carried by the operating lever and adapted to engage the stop member at different radial distances from the center of rotation of said revoluble member, substantially as specified.

16. The combination with a revoluble cutter-board, of a non-radial stop member, a cutter-board operating lever, said lever including an adjustable member provided with graduations, and a tooth carried by the adjustable member and adapted to engage

said non-radial stop member, substantially as specified.

17. The combination with a revoluble cutter-board, of a non-radial stop member, a cutter-board operating lever, said lever including a radially adjustable member provided with graduations, and a tooth or pawl carried by the adjustable member and adapted to engage a stop member, substantially as specified.

18. In a cheese-cutter, the combination of a base-frame and a rotary table mounted thereon, a vibrating lever, a clutch operated thereby to throw the table variable distances, and means carried by the lever for varying the throw of the clutch.

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

HENRY F. DUNN.

Witnesses:

GEORGE P. LOUISO,
FRANK P. DUNN.