

No. 800,431.

PATENTED SEPT. 26, 1905.

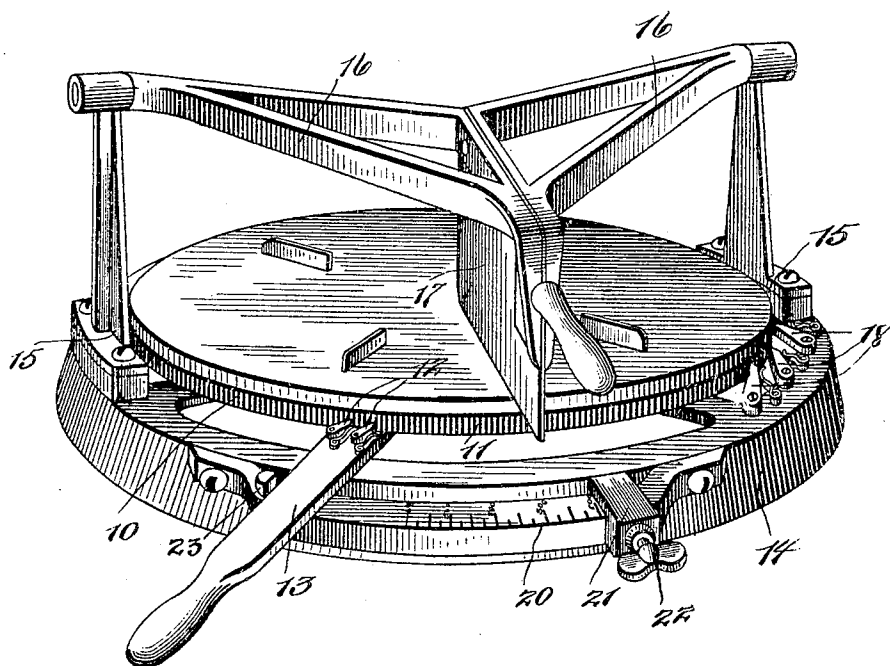
H. F. DUNN.

MEANS FOR SEVERING AND VENDING VARIABLE PORTIONS OF INTEGRAL  
BODIES OF DIFFERENT VALUES.

APPLICATION FILED OCT. 8, 1904.

4 SHEETS—SHEET 1.

*Fig. 1.*



Witnesses

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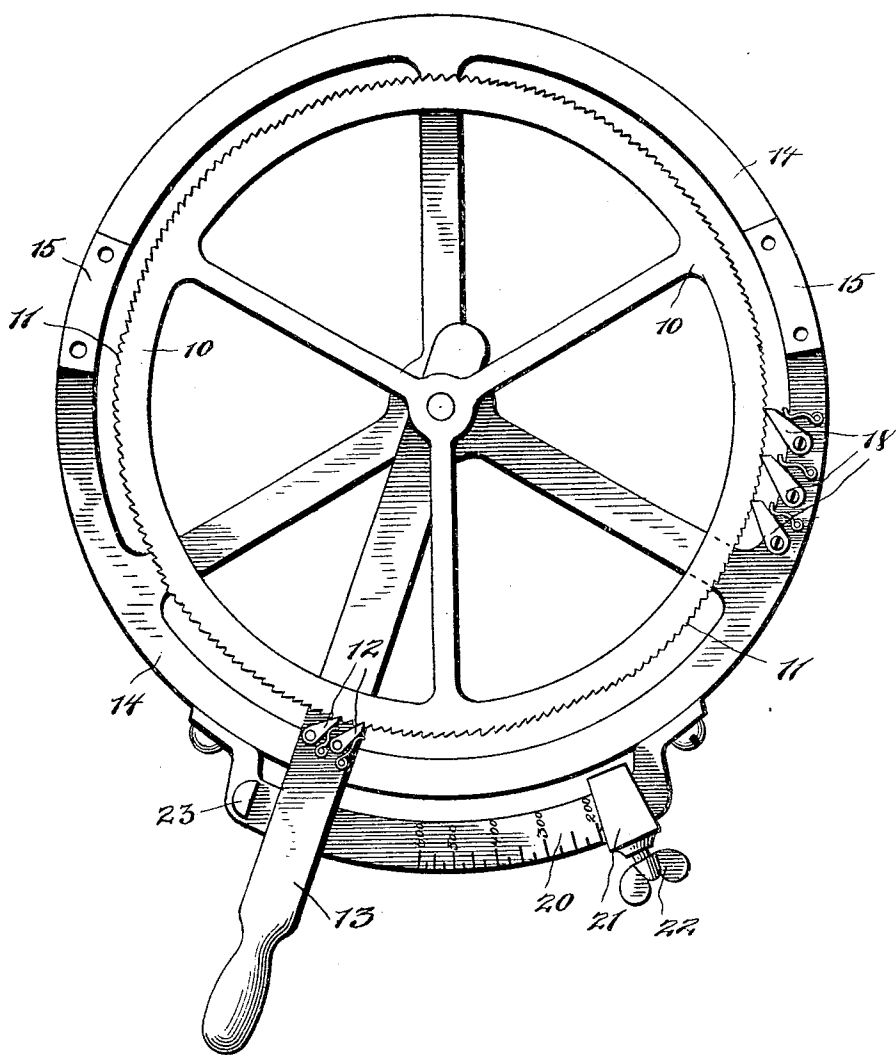
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4 SHEETS—SHEET 2.

*Fig. 2.*



Witnesses

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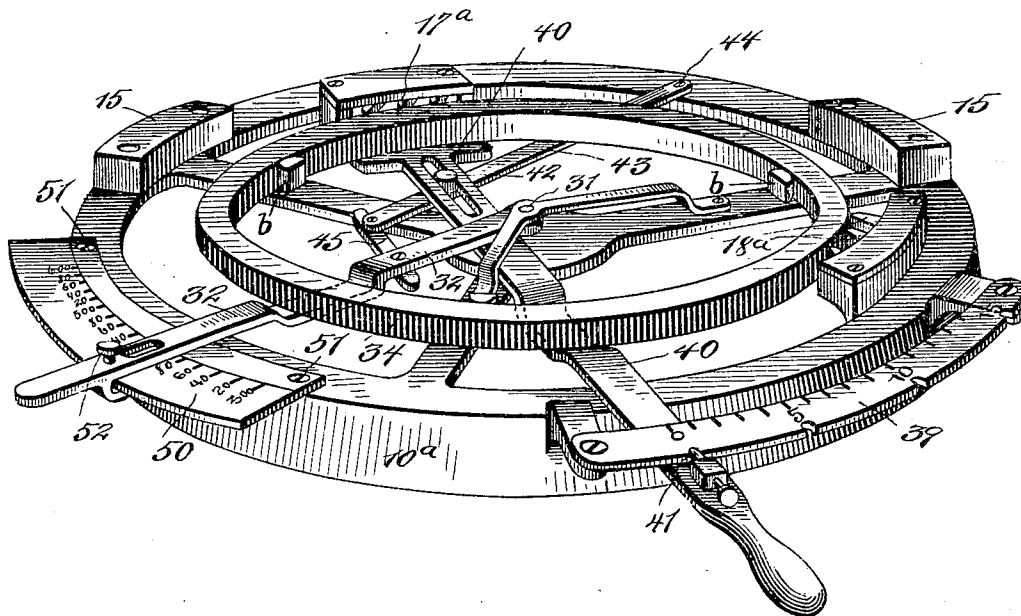
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4 SHEETS—SHEET 3.

*Fig. 3.*



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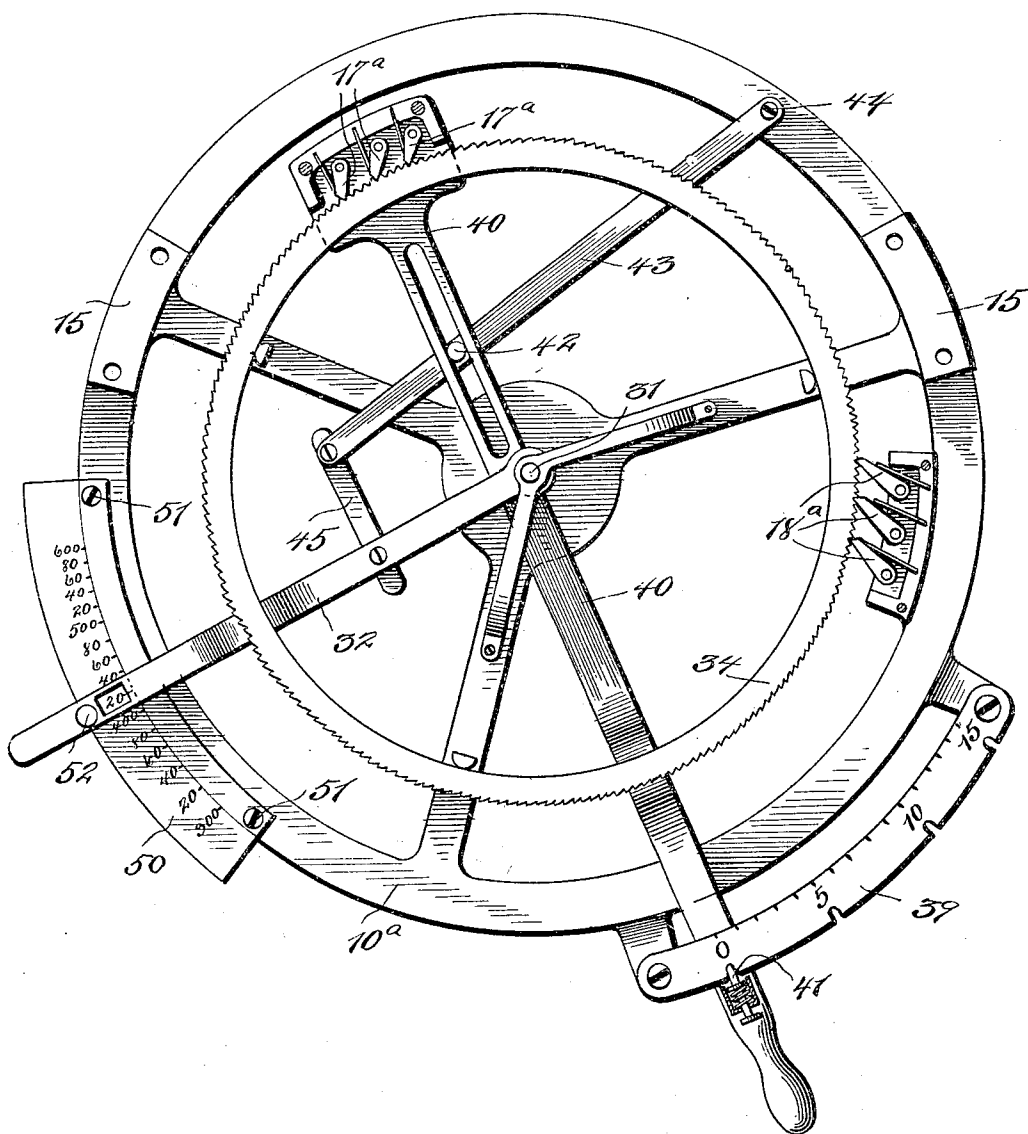
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4 SHEETS—SHEET 4.

*Fig. 4.*



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# UNITED STATES PATENT OFFICE.

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MEANS FOR SEVERING AND VENDING VARIABLE PORTIONS OF INTEGRAL BODIES OF DIFFERENT VALUES.

No. 800,431.

Specification of Letters Patent.

Patented Sept. 26, 1905.

Application filed October 8, 1904. Serial No. 227,758.

*To all whom it may concern:*

Be it known that I, HENRY F. DUNN, a citizen of the United States, residing at Elwood, Madison county, Indiana, have invented a new and useful Improvement in Means for Severing and Vending Variable Portions of Integral Bodies of Different Values, of which the following is a specification, reference being had to the accompanying drawings, forming part thereof, and in which drawings like characters of reference indicate the same parts.

My invention relates to new and useful means for severing and vending variable portions of integral bodies of different values, whereby articles, including cheese at whatever price per pound or other unit, may be vended in portions severed according to their money value.

In the accomplishment of this invention I have greatly simplified the mechanism of the apparatus as well as the mode of adjusting or setting the apparatus for different articles at different rates per pound or other unit.

My present invention consists in first ascertaining the value of the cheese or the sum desired to be realized from the sale of an article in portions and providing the apparatus with a single row of characters indicating the total possible values of a cheese or such other article desired to be sold in pieces. A designator is then set to the character in such row of indications representing such ascertained value of the cheese or sum to be realized from its sale, whereupon the movement of said cheese-carrier is so limited that such movement will measure off a definite money's worth of said cheese or other article, which measured portion may then be severed. Thus it will be seen that my invention dispenses with the necessity for dealing with such incidental matters as weights and prices per pound and presents only the simple and ultimate result—to wit, a cheese or other article is to be sold for so much money, and the apparatus is set to cut said cheese or article into portions that will realize said sum of money.

My invention consists in the means, mechanism, combinations, and arrangements of the various parts and means, all as will be herein-after more fully described, and briefed in each of the appended claims.

I have devised many different forms of apparatus, all embodying the principle or sub-

stance of my said invention; but for the purpose of clearly and concisely illustrating and describing the same I have embodied said invention in the forms of apparatus shown in the drawings, although I do not desire to limit myself to the details of construction or arrangement of the parts specifically shown; but in its proper aspect my invention contemplates its being embodied in any form of apparatus performing the principles of my invention, however widely such forms may differ in construction and details.

Figure 1 is a perspective view of a cheese-cutter embodying the invention as shown in Fig. 2. Fig. 2 is a plan view of a simple form of the machine for operating the cheese-table. Fig. 3 is a perspective view of more elaborate mechanism for operating the cheese-table. Fig. 4 is a plan view of such mechanism.

In the drawings, 10 represents the cheese support or carrier, provided with a plurality of notches or teeth 11 upon its periphery and adapted to be engaged by one or more pawls 12, upon an arm 13, fulcrumed concentric with said carrier 10. The carrier and arm 13 are revolvably supported by a base 14, provided with uprights 15, between which extends a knife-carrying frame 16, having knife 17 secured thereto and adapted to sever portions of the cheese or other article upon the carrier 10. Upon said base 14 are one or more retaining-pawls 18, engaging with said teeth 11, for retaining the carrier 10 in such positions as it may be moved to by the pawl or pawls 12 upon arm 13. Secured to base 14 is a longitudinal bearing plate or bar 20, provided with a single row of indications representing the total prices or the total money value desired to be realized from the sale of a cheese or other article to be sold in portions. Upon said plate 20 is a stop block or member 21, provided with a set-screw 22, adapted to secure said block or member 21 at any position upon said bar 20, said block or member 21 being set to the character upon said bar 20 representing the value of the cheese or the money to be realized from its sale, whereby each movement of lever 13 throughout the space limited upon one side by the contact of lever 13 with said block or member 21 and upon the other side by a projection or fixed stop 23 of plate 20 will drive the carrier 10 to measure a predetermined money's

worth of said cheese, which may be either five, ten, fifteen, twenty, twenty-five cents or any other sum of money previously determined upon and provided for by the spacing of the graduations upon bar 20. The total-value graduations on this scale-bar consist of marks which are designated by figures indicating such total values arranged inversely as to their respective distances from the fixed stop, so that the highest figure will be nearest the fixed stop, and such distances not only correspond to aliquot parts, respectively, of such total values, but also to aliquot parts or sector portions of the carrier.

The foregoing is believed to embody my invention in the simplest form to me now known, and it renders obvious the simplicity and directness of manipulation accomplishable by my invention.

In Figs. 3 and 4, illustrating my invention as applied to means for varying the ratio of movement for different cheeses, the lower member 34 of the cheese-carrier is revolubly mounted in guides 7, projecting from the base 10<sup>a</sup>, and also revolubly mounted in a shouldered portion of a central pin 31 is an arm 32, which extends over the scale 50. A lever 40 is provided at its outer end with one or more pawls 17<sup>a</sup>, engaging serrations or teeth on the periphery of the circular member 34 and is designed to effect rotation of said member. The base 10<sup>a</sup> is provided with one or more pawls 18<sup>a</sup>, engaging said serrations or teeth in order to prevent retrograde movement of this member, to which the cheese-carrier table is designed to be attached. The operating-lever 40 is provided with a variable fulcrum by means of its slot engagement with a fulcrum-pin 42, carried by an arm 43, pivoted by its outer end to the base at 44 and connected to the arm 32 by a link 45. The scale 50, secured to the peripheral portion of the base, is provided with a single row of indications indicating the total value of a cheese or article or the sum of money desired to be realized from its sale in portions. The lever 32 is provided with a clamp-screw 52 for clamping said lever at different positions throughout the extent of the scale-plate 50. The outer end of lever 40 extends between the base and a raised scale-plate 39, which is provided with a plurality of graduations indicating the money's worth in cents or fractions thereof within the range of the value of the piece of cheese or other article to be severed.

In the operation of my invention as embodied in Figs. 3 and 4 of the drawings lever 32 is set and clamped at a character on said scale-plate 50 representing the total value of the cheese or article to be sold in pieces or the total money value desired to be realized from the sale of such article in pieces. Such adjustment of lever 32 through the instrumentality of link 45 and lever 43 moves pin

or variable fulcrum 42 to different distances in the length of lever 40, whereupon the cheese-carrier may be moved to measure off any number of cents' worth of cheese or any other article in one or more operations of lever 40, the number of cents' worth so measured off being indicated by money-value characters upon said plate 39, designated by a spring-pressed indicator-slide 41, slidably mounted in an upward projection of said lever 40 and adapted to engage in one or more notches in the edge of said plate 39, which notches each represent a different money value, whether one, five, ten, or other value being purely an arbitrary matter, the said notches and graduations on said plate 39 corresponding each with the other.

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

1. Means for vending an article in portions, including means whereby portions may be severed, a carrier for said article, means for moving said carrier, a scale-bar having a row of inverse total-value graduations, and means adjustably engaging said scale-bar for limiting the motion of such carrier-moving means, substantially as specified.

2. The combination of a cutting mechanism, a carrier for the article to be cut in portions, means for moving said carrier, a scale-bar having a fixed stop and inverse total-value graduations indicating sums of money to be realized from the sale of such articles and governing the size of said portions in accordance with the total value, and means in adjustable engagement with said scale-bar for limiting the motion of the means for moving said carrier, substantially as specified.

3. The combination of a cutting means, a carrier for a substance to be cut, means for relatively moving said cutting means and said carrier, a scale-bar inversely graduated to indicate the total prices to be realized from the sale of such substances, and means adjustably engaging said scale-bar for limiting the extent of such relative movement at each operation of said means for relatively moving said cutting means and said carrier, substantially as specified.

4. The combination of a cutting means, a rotary carrier for substances to be cut, means for relatively moving said cutting means and said carrier, a scale-bar having inversely-arranged graduations indicating a plurality of total values of such substances, and a stop adjustably engaging said scale-bar to limit the extent of such relative movement, whereby when said stop is set to the value on said scale-bar representing the total value of said substance, such moving means will move said carrier so that pieces of constant value may be cut from cheeses of different total values.

5. The combination of a cutting means, a carrier, means for moving said carrier, a scale-

bar having inversely-arranged graduations representing total values, and a stop member adapted to be set to any value upon said scale-bar and to engage said scale-bar to limit the operation of said means for moving said carrier, substantially as specified.

6. In a cheese-cutter, a rotary carrier, a scale-bar inversely graduated to total values, means for moving said carrier, and an adjustable stop engaging said scale-bar according to the total value of the article on the carrier, and controlling the means for moving said carrier, substantially as specified.

7. In a cheese-cutter, the combination of a base-frame, a scale-bar carried by said frame, and inversely graduated in total values of different cheeses, a rotary table on said base-frame, a table-rotating lever having movement over said scale, and an adjustable stop engaging said scale-bar for limiting the movement of said lever, substantially as specified.

8. In a cheese-cutter, the combination of a movable carrier for substances of different values, a reciprocating operating-lever for said carrier, a scale-bar inversely graduated in independent distances from a common point marked as different total values, a fixed stop at said point, and an adjustable stop on said scale-bar, substantially as specified.

9. In a cheese-cutter, the combination of a rotary carrier for substances of different values, a reciprocating operating-lever for moving said carrier, a scale-bar marked at different distances from a common point representing independent aliquot parts of said carrier

and inversely graduated as total values, a fixed stop at said common point, and an adjustable stop on said scale-bar, whereby pieces of constant value will be cut from the cheeses of different values substantially as specified.

10. In a cheese-cutter, the combination with a base-frame, a rotary carrier thereon for cheeses of different values, a reciprocating operating-lever for said carrier, a scale-bar on said base-frame, a fixed stop on said scale-bar, total-value graduations inversely arranged at distances directly increasing from said fixed stop, and an adjustable stop engaging said scale-bar to limit the movement of said operating-lever, whereby pieces of constant value will be cut from cheeses of different values substantially as specified.

11. In a cheese-cutter, having a rotary carrier, and a reciprocating operating-lever therefor, a scale-bar having independent distances marked from a common stop measuring aliquot parts of said carrier and inversely graduated to mark different total values of cheeses, whereby pieces of constant value will be cut from cheeses of different values, substantially as specified.

In testimony whereof I have signed my name to this specification, this 17th day of February, 1904, in the presence of two subscribing witnesses.

HENRY F. DUNN.

Witnesses:

ED W. LOUISO,  
FRANK P. DUNN.