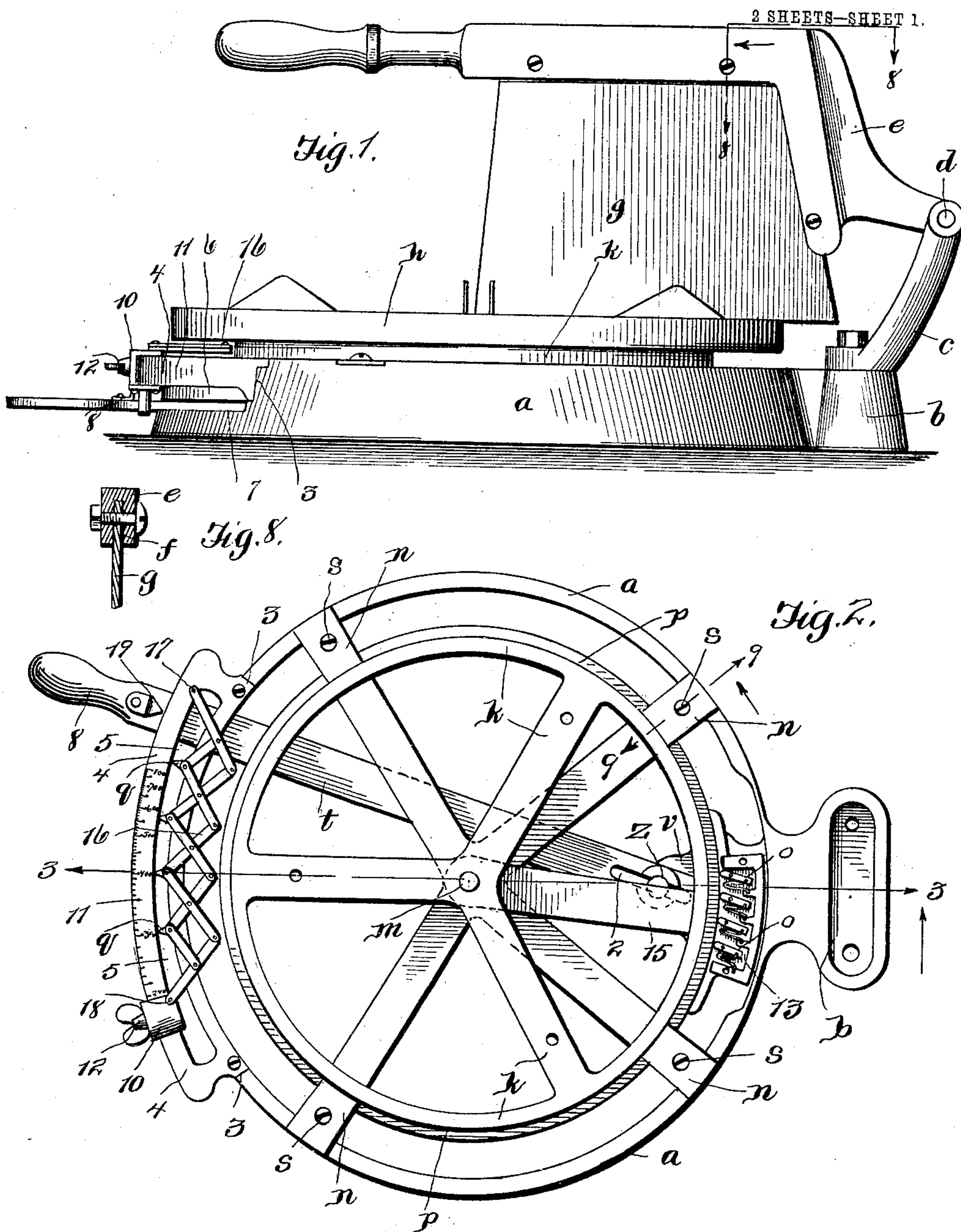


No. 829,701.

PATENTED AUG. 28, 1906.

H. F. DUNN.
CHEESE CUTTER.

APPLICATION FILED JAN. 16, 1905.



Witnesses

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George M. Anderson

Inventor

Henry F. Dunn

By

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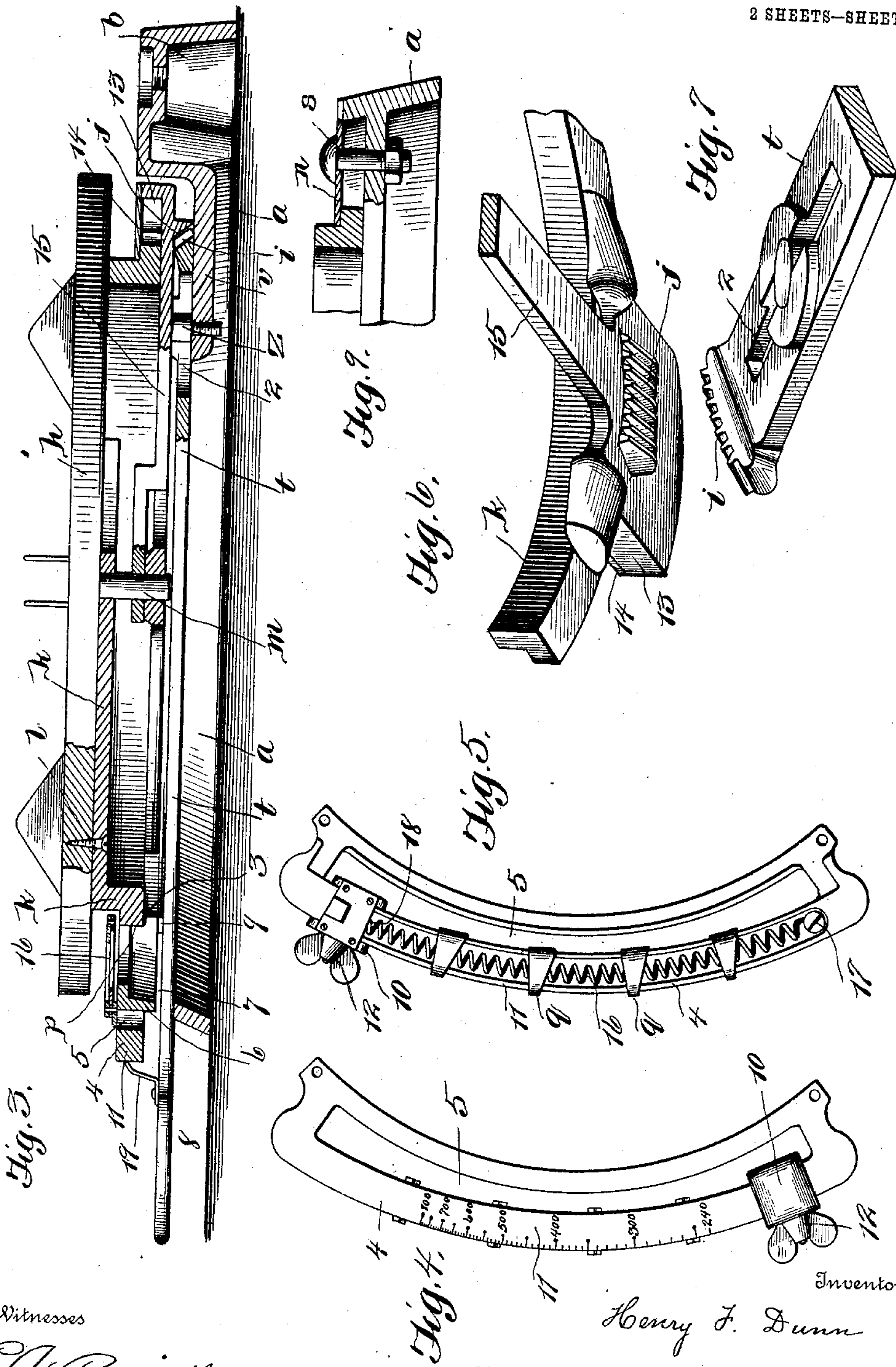
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

HENRY F. DUNN, OF ANDERSON, INDIANA, ASSIGNOR TO DUNN MANUFACTURING COMPANY, OF ANDERSON, INDIANA, A CORPORATION OF INDIANA.

CHEESE-CUTTER.

No. 829,701.

Specification of Letters Patent.

Patented Aug. 28, 1906.

Application filed January 16, 1905. Serial No. 241,224.

To all whom it may concern:

Be it known that I, HENRY F. DUNN, a citizen of the United States, and a resident of Anderson, in the county of Madison and State of Indiana, have made a certain new and useful Invention in 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 ap-
10 pertains to make and use the invention, reference being had to the accompanying drawings, and to characters of reference marked thereon, which form a part of this specification.

15 Figure 1 is a side elevation of the invention. Fig. 2 is a plan view of the same with table *h* and knife removed. Fig. 3 is a section on the line 3-3, Fig. 2, with table *h* in place. Fig. 4 is a detail plan view of the arc-scale bar. Fig. 5 is a bottom plan view of
20 the same with modified form of extension-indicator. Figs. 6 and 7 are detail views of the toothed connection between lever and table. Figs. 8 and 9 are detail sectional
25 views.

The invention relates to cheese-cutters; and it consists in the novel construction and combinations of parts, as hereinafter set forth.

30 In the accompanying drawings the letter *a* designates the base of the machine having an extension *b* in rear, to which is connected an arm *c*, to which the journal *d* of the knife-frame *e* is pivoted. The knife-frame is of
35 angular form and is provided with a groove *f*, cored in its vertical and horizontal portions to receive the blade *g*, which is secured in the slot by suitable screws or bolts.

40 Upon the base lies a rotary cheese table or board *h*, to the under side of which is secured a plate *k* by means of screws 1, and said plate is pivoted to the center of the base-frame by a pivot pin or stud *m* of the plate *k*. The plate *k* is circular and is rabbeted on its
45 outer edge to engage spring friction-lugs *n* of the base, which serve to steady the plate *k* in its rotation. The margin of the circular frame is designed to be smooth, as at *p*. When the plate is turned by means of the op-
50 erating-lever *t*, the friction-lugs *n* serve as brakes of sufficient power to prevent it from turning beyond the point required. The pressure of the spring-lugs can be adjusted by means of screws *s*. The base is cast with

an interior horizontal lug *v* near its extension *b*, said lug *v* carrying a fulcrum-pin *z*, which engages a fulcrum-slot 2 of the operating-lever *t*, the lever being sprung onto the fulcrum-pin, so that the fulcrum-bearing automatically prevents lost motion at this
55 point due to wear.

An arcuate portion of the rim of the base is recessed or cut away in front at 3 to receive the arcuate scale-plate 4, which is secured to the ends of the recessed portion of the rim by
60 means of screws. This arc-form scale-plate is slotted, as at 5, and is provided with an inner flange 6, which forms the upper margin of the arc-slot 7, through which the handle end 8 of the operating-lever *t* extends. 70
One end of the recess 3 forms a stop 9, limiting the movement of the operating-lever to the left, and an adjustable stop 10 is provided on the scale-bar 11 of the scale-plate, said stop being secured in position after ad-
75 justment by a set-screw 12.

The lever *t* is a chord-lever, its inner end extending beyond the rear of the circular rabbeted plate *k*, and this inner end is provided with beveled teeth *i*, arranged in arc
80 form to engage the bevel-rack *j* of the pawl box or grip 13 in a close manner. The box or grip has a cover 14, which engages the rabbet of the circular plate *k* in a sliding manner, but sufficiently closely to keep the
85 pawl box or grip true to its work. This pawl box or grip is secured to the outer end of a radial arm 15, which is pivoted on the center pin *m*.

The arc scale-bar carries an extensible in-
90 dicator connection 16, one end of which is attached at one end of the scale-bar, as at 17, and the other end of which is connected to the adjustable stop 10, as at 18. This extensible indicator 16 is therefore a proportional
95 indicator and is provided with indicator-points *q*, arranged in series and designed to indicate automatically the worth of one cent, two cents, three cents, and four cents when the limiting-stop is set for five cents' worth, 100
according to the value of the cheese. For this purpose the lever is provided with a pointer at 19. The proportional indicator may be made by using a parallel folding frame, as shown in Fig. 2 of the drawings. In Fig. 5 of
105 the drawings is shown a modified form consisting of a coil-spring 16^a, one end of which is attached at one end of a recess on the un-

der side of the arc scale-bar, as at 17^a, and the other end of which is connected to the adjustable stop 10, as at 18^a.

The bevel-toothed end of the operating-lever and the bevel-rack of the grip device make an almost perfect engagement, and inasmuch as they are both cast there is no work required in cutting or finishing them, and the weight of the cheese-table causes them to mesh closely together, so as to take up lost motion due to wear. This gear or rack connection is also designed to make the sweep of the operating-lever over the scale-bar regular or equal at all points, so that it is not necessary to test the cutter for every graduation of the scale-bar, as would be the case if the motion of the operating-lever were irregular or greater at one point of the scale-bar than at another. The arc scale-bar is graduated, as shown, for total cheese values from two dollars and forty cents to eight dollars, and it is only necessary to test the cutter for the first value. The grip is intermittent and is designed to consist of a series of round end pawls 0, which are held to their work by springs.

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

30 1. In a cheese-cutter, a base provided with a fulcrum-bearing lug, a lever having a slotted fulcrum-bearing adapted to take up wear and a fulcrum-pin for the same carried by the said lug, substantially as specified.

35 2. In a cheese-cutter, a circular rotary plate, an intermittent grip device engaging the margin of the plate and having a bevel-tooth rack, and an operating-lever having a bevel-toothed end engaging said rack, substantially as specified.

3. In a cheese-cutter, a circular rotary plate, an intermittent grip device engaging the margin of the plate and having a bevel-tooth rack, an operating-lever having a bevel-toothed end, and a base having spring friction-plates engaging said rotary plate, substantially as specified. 45

4. In a cheese-cutter, a rim-recessed base, a circular rabbeted rotary plate thereon, an intermittent grip device engaging said plate, an operating-lever having a fulcrum-slot to take up wear and pivotally connected to said base and extending through the recess in the rim of the base, an arc-form scale-plate bridging the rim-recess, and friction devices marginally engaging said rotary plate, substantially as specified. 55

5. A cheese-cutter having a base with a recessed rim, an arc-form scale-plate bridging said rim, an adjustable stop on said scale-plate, a rotary plate, a pivoted radial arm, an intermittent grip device connected to said arm and engaging said rotary plate, and an operating-lever having a slotted fulcrum-bearing to take up wear and extending under said arc-form scale-plate, substantially as specified. 65

6. In a cheese-cutter, an arc-form scale-plate having an adjustable stop, an automatic proportional indicator connected thereto, and an operating-lever having a pointer for said proportional indicator, substantially as specified. 70

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

HENRY F. DUNN.

Witnesses:

ELIZABETH RYAN,
CLARENCE C. LEIB.