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C. E. YALE.

PERCENTAGE MECHANISM FOR COIN CONTROLLED APPARATUS.

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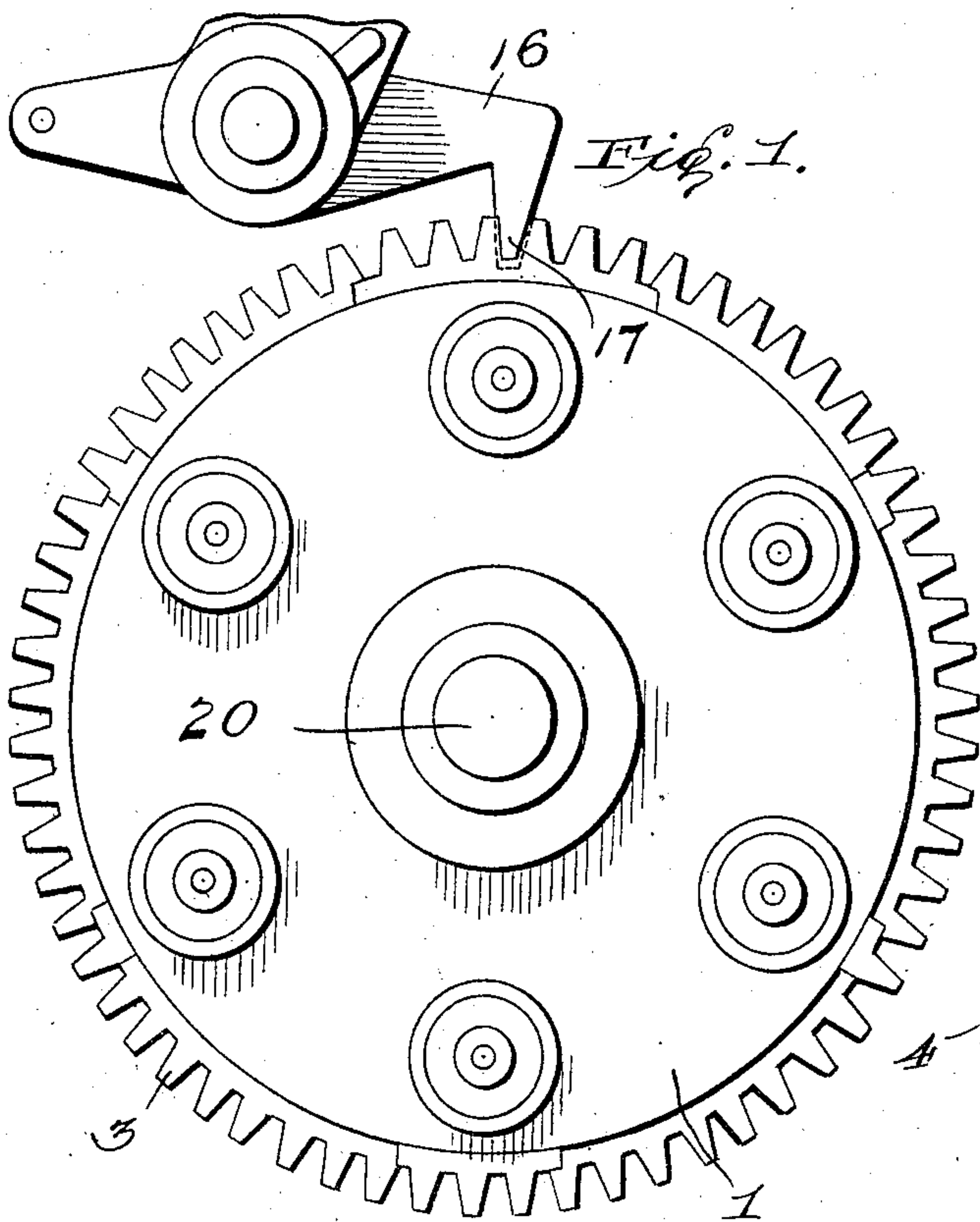


Fig. 1.

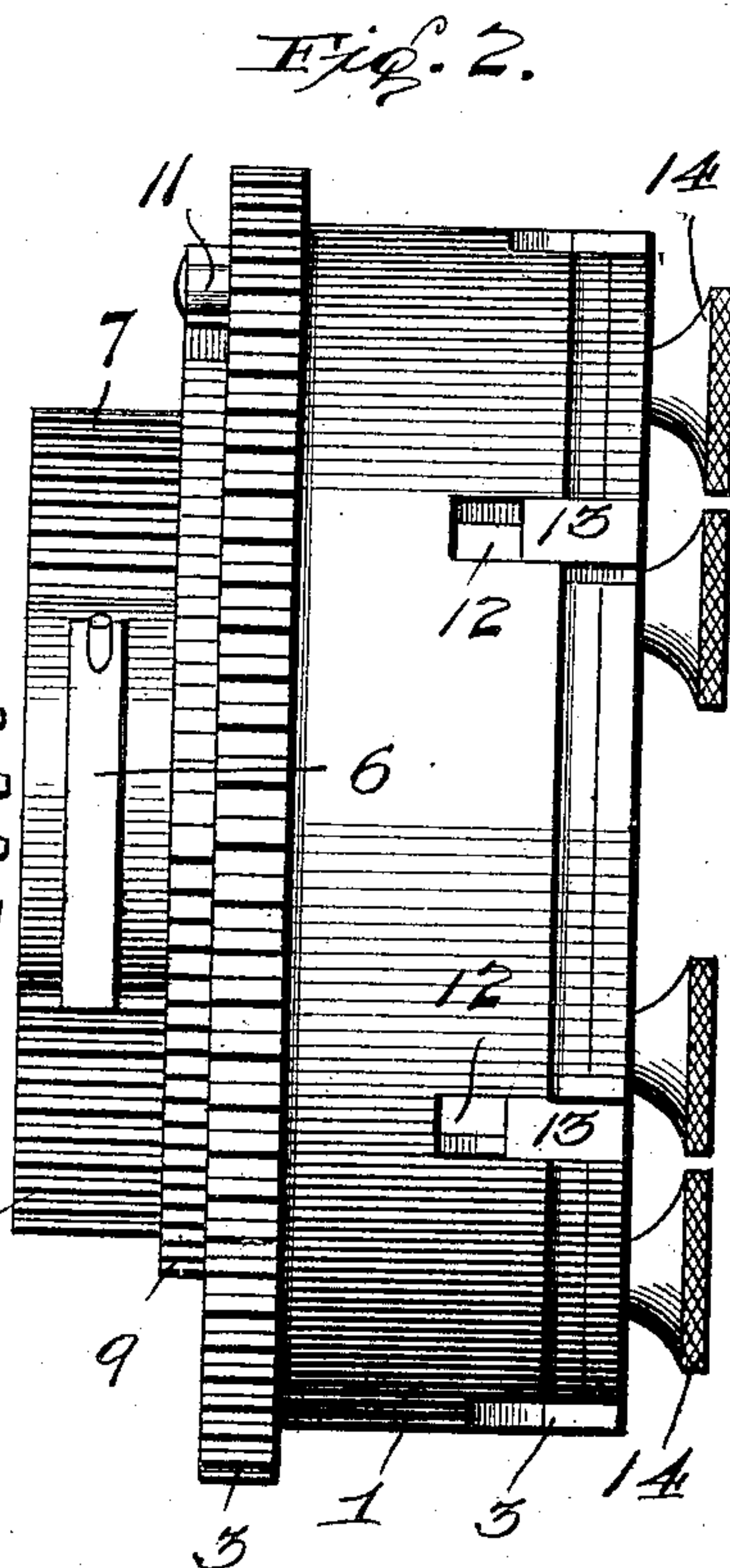


Fig. 2.

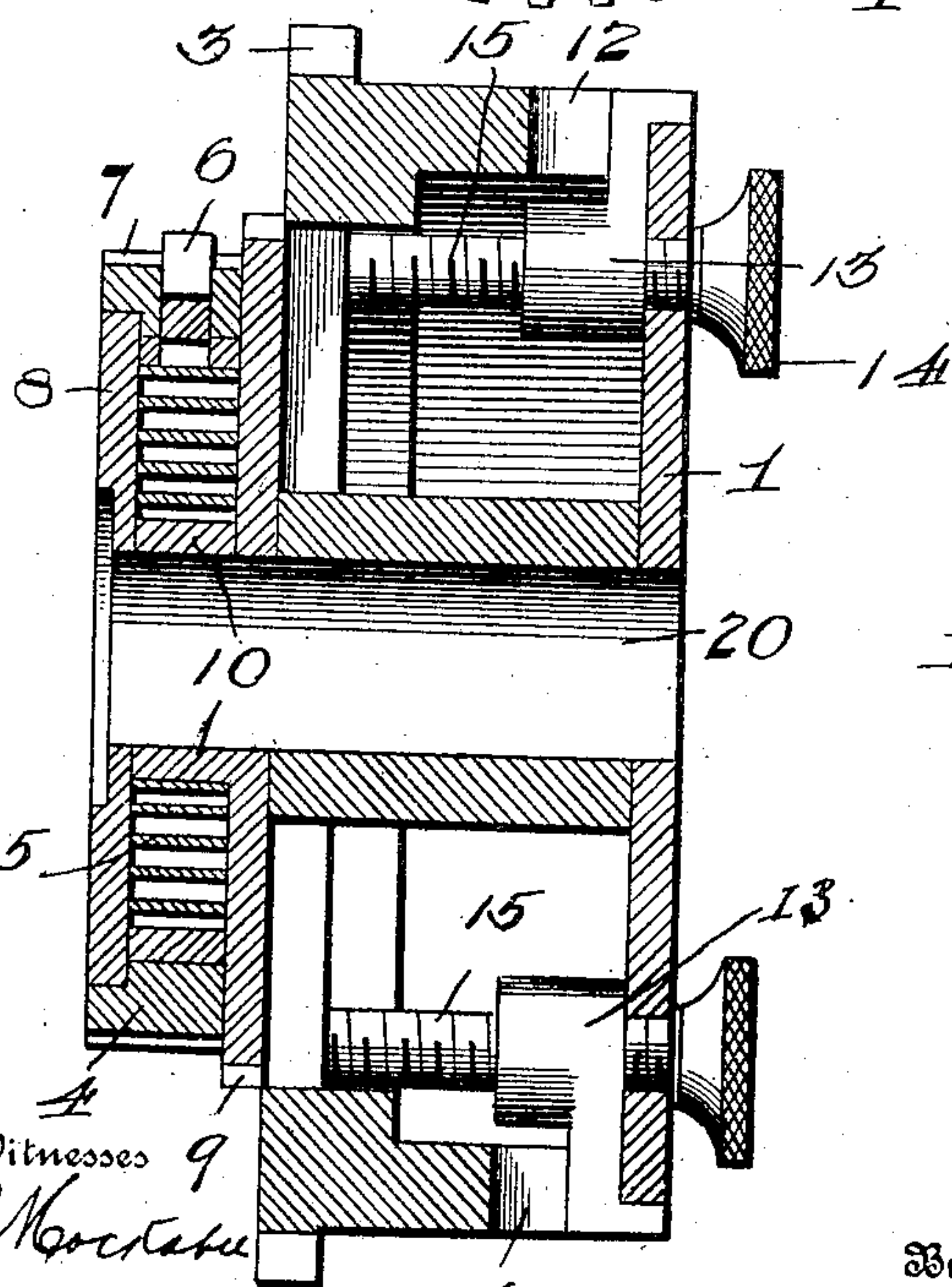


Fig. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

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PERCENTAGE MECHANISM FOR COIN-CONTROLLED APPARATUS.

No. 878,172.

Specification of Letters Patent.

Patented Feb. 4, 1908.

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To all whom it may concern:

Be it known that I, CHARLES E. YALE, a citizen of the United States, residing at Burlington, in the county of Chittenden and State of Vermont, have invented new and useful Improvements in Percentage Mechanism for Coin-Controlled Apparatus, of which the following is a specification.

This invention relates to percentage mechanism for coin controlled apparatus, and one of the principal objects of the same is to provide reliable and efficient means for regulating the percentage in a coin controlled apparatus so that any desired amount over and above the face value of the coin deposited may be delivered.

Another object is to provide a drum with a series of apertures in its periphery, and means whereby the area and extent of these apertures may be increased or diminished in order that the percentage of delivery may be regulated by means of a set of ejector devices traveling over the surface of the drum and being actuated when engaged in the apertures.

These and other objects are attained by means of the construction illustrated in the accompanying drawing, in which—

Figure 1 is a front elevation of the percentage drum, and showing pawl or dog engaged therewith. Fig. 2 is an edge view of the drum. Fig. 3 is a central vertical section of the same.

Referring to the drawing for a more particular description of the invention, the numeral 1 designates a drum, having a central bearing 2 for a shaft, and provided with a series of teeth 3 extending entirely around the periphery at one edge thereof. Connected to the drum is a ring 4, containing a convolute spring 5, and a friction pawl 6 extends through the periphery of the ring and is adapted to bear upon the spring when depressed at its end. A series of gear teeth, 7, is formed on the periphery of the ring 4, and the teeth are omitted at the point at which the pawl is pivoted. A ring or disk 8 is held in place within the ring 4 to confine the spring 5 within the ring. A ratchet disk 9, having a hub 10, around which the spring 5 is wound and to which one end of the same is secured, is disposed intermediate the drum 1 and the ring 4, and a pawl 11, is pivoted at the side of the drum 1 to engage the teeth of said disk. A series of apertures

12, extend from one edge of the periphery of the drum toward the other, and these apertures are of different areas in both longitudinal and transverse directions. Adjustable slides 13, are fitted, one to each aperture, and adjusting screws 14 pass through bosses 15, formed on the slides. When the screws are turned the slides are moved outward or inward to expose more or less area of the apertures. A series of pawls, one of which, 16, is shown in Fig. 1, is adapted to have their noses 17 bear upon the periphery of the drum 1, and when one of said pawls comes into coincidence with one of the apertures 12, the nose 17 engages the same and stops the revolution of the said drum.

The term "percentage mechanism" as used in this specification refers to means whereby the owner of one of the coin controlled machines of which this percentage mechanism forms a part, may adjust the parts so that any desired percentage over and above the face value of the coin deposited may be delivered. To illustrate: If the machine is intended to deliver checks having a minimum value of five cents in trade at the store where the machine is placed, the percentage mechanism described may be adjusted to average a delivery of six checks for twenty-five cents, or even a larger percentage if desired. But since one of the noses 17 of the pawls 16 must engage one of the apertures 12 at each operation of the machine, a check is sure to be delivered each time the drum is actuated.

The operation of the invention may be described as follows:—The drum 1 is given an initial impetus by means of the spring and connected mechanism, and is started to spin on its shaft. The noses 17 of the pawls 16 bear on the periphery of the drum and when one of the noses engages one of the apertures, the delivery mechanism (not shown) is operated.

From the foregoing it will be understood that the percentage of delivery can be regulated by the slides, so that checks of different denominations may be delivered from the machine, and that this percentage may be regulated at the wish of the attendant of the machine.

Various changes may be resorted to in the details of construction without departing from the spirit and scope of the invention.

Having thus described my invention, what

I desire to secure by Letters Patent and claim is:—

1. In percentage mechanism for coin controlled apparatus, a drum having a plurality
5 of apertures in its periphery, and adjustable means for varying the areas of said apertures.

2. In a mechanism of the character described, a drum having a series of apertures of different sizes in its periphery, and means
10 for regulating the sizes of said apertures, in combination with pawls or dogs adapted to engage said apertures and serving as a stop for said drum, substantially as described.

3. In mechanism of the character described, a drum having a series of apertures
15 therein, and adjustable slides for covering more or less of each aperture, for the purpose set forth.

4. In apparatus of the character de-

scribed, a spring actuated drum having a 20 series of apertures in the periphery thereof, adjustable slides for exposing more or less of said apertures, and a series of pawls adapted to engage said apertures and stop the revolution of said drum. 25

5. In apparatus of the character described, a drum, having a series of apertures in the periphery thereof, slides, set screws for adjusting the slides for covering more or less
of the apertures, a spring ring, a spring there- 30 in, gear teeth on the ring, and pawls, adapted to engage said apertures and stop the revolution of the drum, substantially as described.

CHARLES E. YALE.

In presence of—

M. L. HEARD,

C. SCHERMERHORN.