

(No Model.)

A. T. ROUSSEAU.
TOY.

No. 356,731.

Patented Jan. 25, 1887.

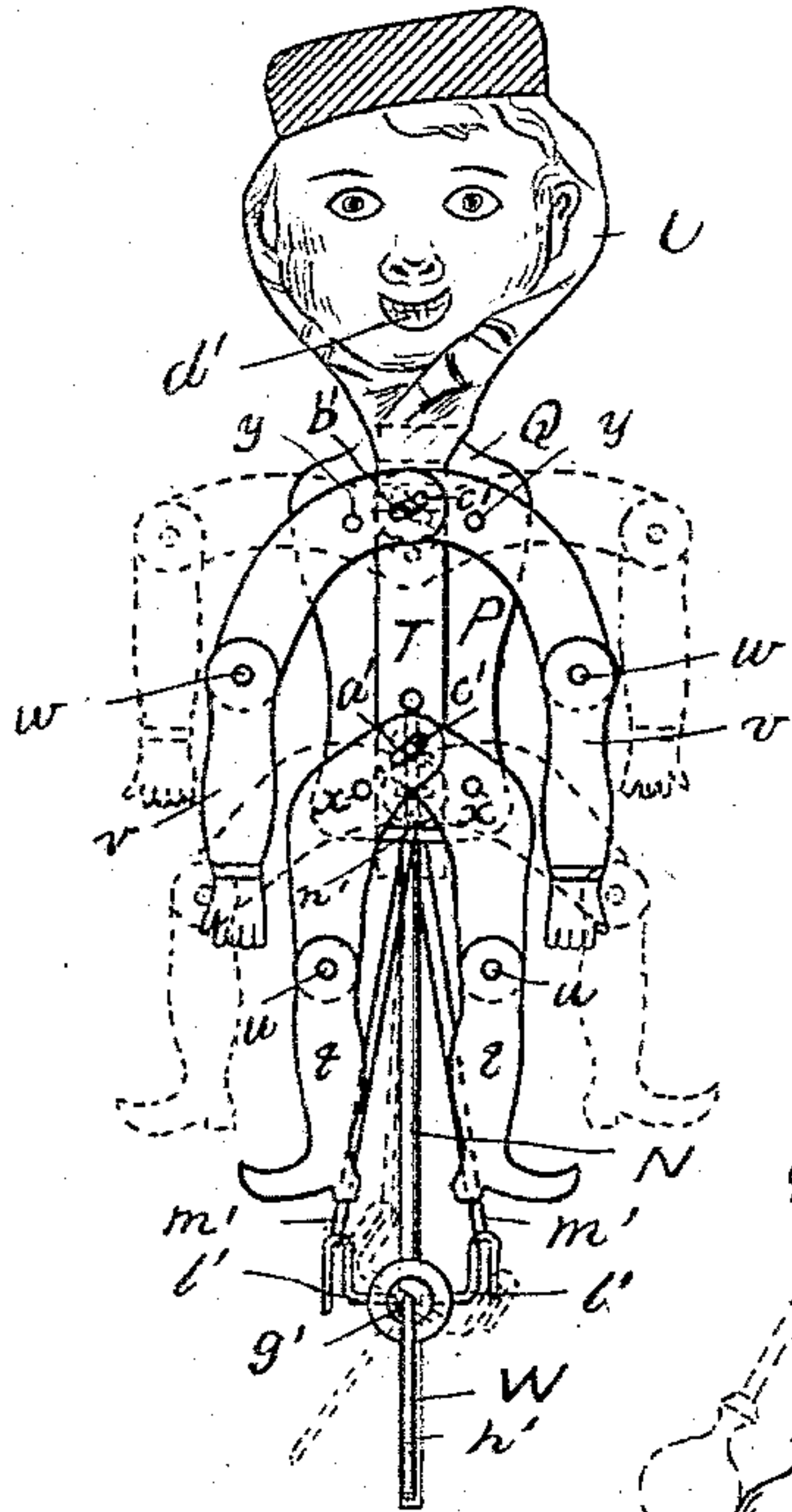


FIG. 3.

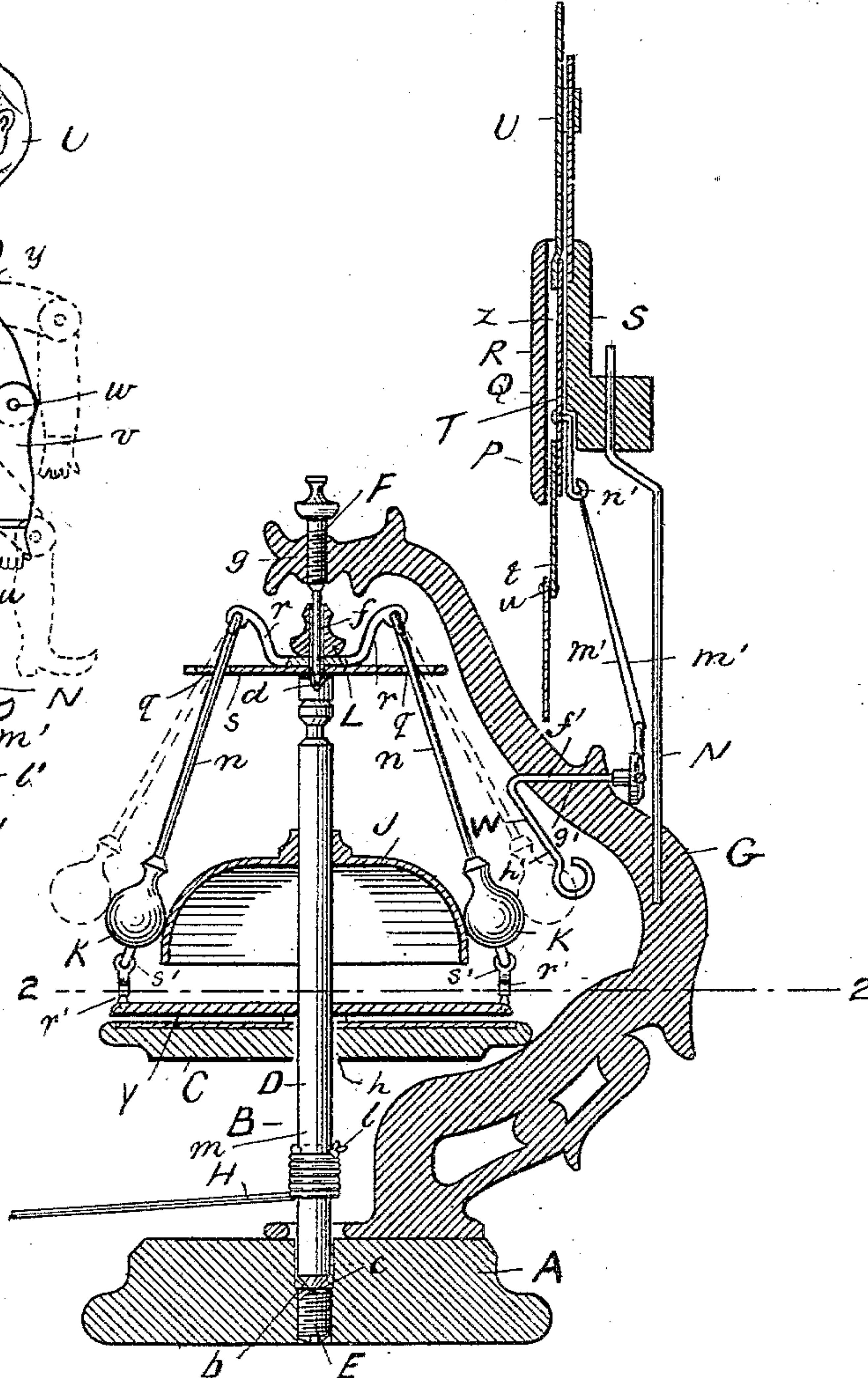


FIG. 1.

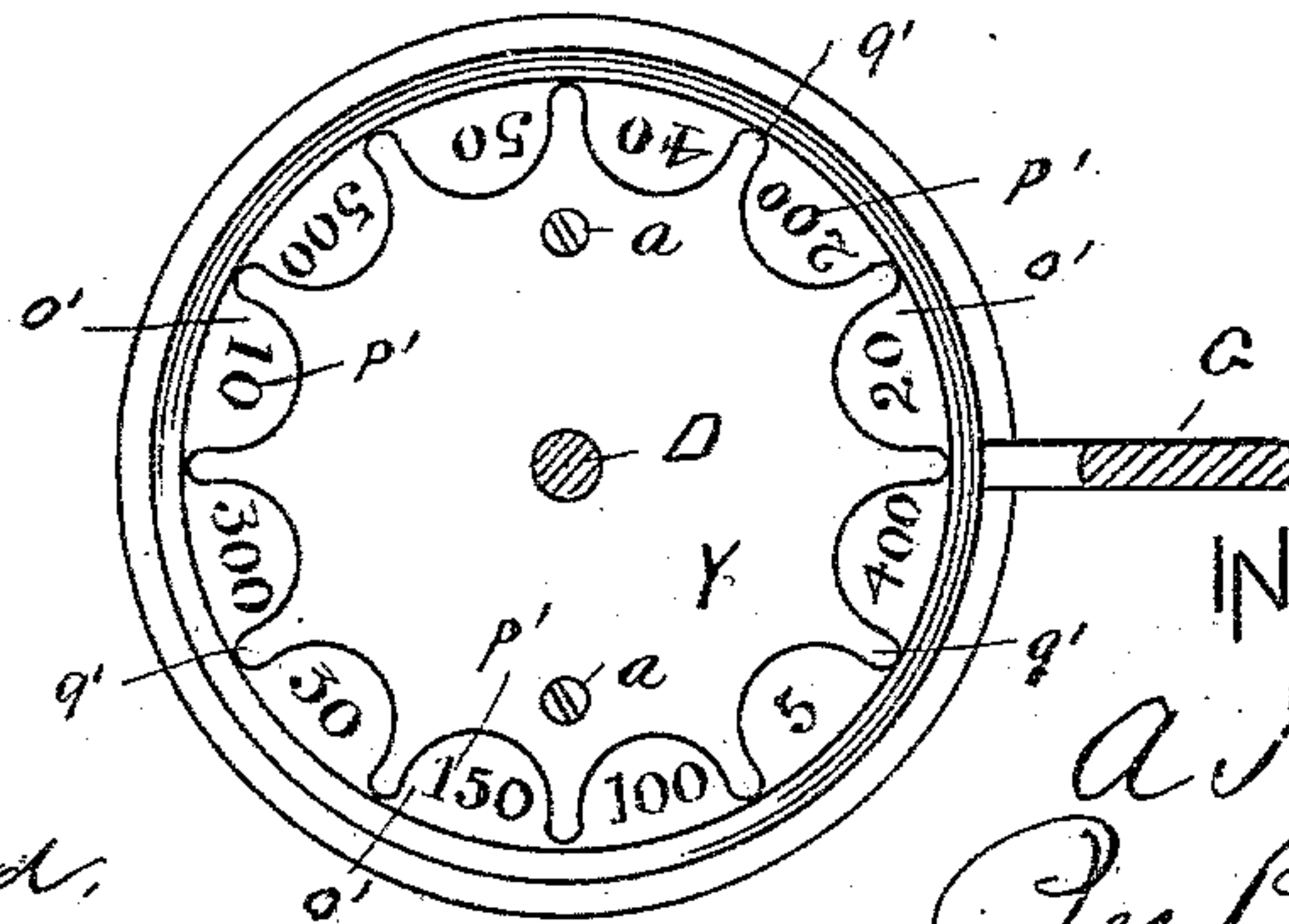


FIG. 2.

WITNESSES.

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AUGUSTE T. ROUSSEAU, OF CAMBRIDGE, MASSACHUSETTS.

TOY.

SPECIFICATION forming part of Letters Patent No. 356,731, dated January 25, 1887.

Application filed December 19, 1885. Serial No. 186,204. (No model.)

To all whom it may concern:

Be it known that I, AUGUSTE T. ROUSSEAU, of Cambridge, in the county of Middlesex and State of Massachusetts, have invented certain
5 new and useful Improvements in Toys, of which the following is a full, clear, and exact description.

This invention consists of a toy composed of a bell having a tongue or tongues which are
10 adapted to revolve on a suitable support, of an image suitably supported having its limbs suitably jointed and connected to a swinging arm, so that as the bell and its tongue or
15 tongues revolve the tongue or tongues will, from the centrifugal force imparted to them by their rotation, strike said arm, which will cause the legs and arms of the image to move
20 upward and swing on their joints and the tongue or tongues to then strike and sound the bell, all substantially as hereinafter fully described; and the invention also consists in the combination, with the bell and its
25 tongue or tongues, of a series of figures or numbers suitably arranged in a circular line outside of the bell upon a disk or plate below the tongues, so that when the tongue or
30 tongues stop or cease to revolve they will be over one of such figures, or a space between such figures, by which a game can be played, all substantially as hereinafter fully described,
reference being had to the accompanying plate of drawings, in which—

Figure 1 is a vertical cross-section of a toy constructed according to this invention; Fig.
35 2, a horizontal section on line 2 2, Fig. 1, showing part in plan view, and Fig. 3 a detail view in elevation.

In the drawings A represents a base-plate supporting by uprights B a circular plate or
40 disk, C, secured to the top of said uprights by screws *a*.

D is a vertical spindle or rod adapted by its lower end, *b*, to rest in a socket, *c*, in the upper end of a screw, E, in the base A, and
45 by a socket, *d*, in its upper end to bear on a pin, *f*, which is an extension of a screw, F, in the upper end, *g*, of an arm, G, projecting from one side of the base A. This spindle or rod
50 D is adapted to turn in its bearings *b c*, and freely through an opening, *h*, in the plate C, and to be operated by pulling upon a cord or string, H, secured by one end, *l*, to the portion
m of the spindle between the disk C and base.

J is a bell turned downward and centrally secured to the spindle D above the plate C, 55 and K K are two bell-tongues suspended by their respective rods *n* from the outer ends of a cross-bar, *r*, of a sleeve, L, adapted to fit loosely on the pin *f*, and resting on the upper end of the spindle D. The rods *n* of 60 the bell-tongues pass through longitudinal slots *q* in the ends of a bar, *s*, of the sleeve L, below the bar *r*. The sleeve is adapted to freely revolve on the pin *f* and the upper end of the spindle D, carrying with it the bars *r s*, (which 65 bars can be a part of the sleeve or attached thereto in any suitable manner.)

With the string or cord H wound upon the part *m* of the spindle and pulling vigorously upon its outer end, the cord will unwind from 70 the spindle, causing it with the bell and tongue to revolve—the tongues from the friction of their sleeve L on the upper end of the spindle, although perhaps a little slower—and when the string is all unwound, if let go the 75 spindle, bell, and the tongues, from their momentum, will still continue to revolve, and as the tongues revolve around and with the bell the centrifugal force exerted thereon will cause them to move radially from the bell, limited 80 in such movements by the length of the slots *q* in the bar *r*.

N is a vertical arm securely attached to the arm G and supporting at its upper end an image, P, which is in the form of a man. The 85 legs *t* of the image are jointed by pivots *u* at their knees and the arms *v* at their elbows *w*, the legs and arms being pivoted, respectively, at *x y* to the body portion Q in the space *z*, between the front R and back S portions of 90 the body, which are properly secured together in any suitable manner.

T is a plate adapted to slide up and down and be guided in the space *z* of the body. This plate T, by pins *a'* and *b'*, engages, re- 95 spectively, with slots *c'* in the legs and arms, which are in such relation to their respective pivots *x y* that as the plate T is pulled downward the legs and arms will be correspondingly raised, as shown in dotted lines in Fig. 100 3. The head U is secured to this plate, the mouth being represented as open and showing the teeth *d'*, which are marked on the back S.

W is an arm adapted by its horizontal por- 105 tion *f'* to swing in a bearing, *g'*, in the arm G,

its portion h' extending downward, its lower end being enlarged and in the line of travel of the bell-tongues as they are revolved and thrown outward, as described.

5 Extending each way in a horizontal direction from the back end, f' , of the arm W are arms l' , from the hooked ends of which extend
10 cords m' , attached by their other ends to the bottom of the plate T at n' . Swinging the arm to the left swings down its right arm, which by its cord pulls down the plate T and the head U, and through the slot-and-pin connection with the arms and legs of the image
15 shake more or less on their pivots.

The operation of the toy is substantially as follows: Revolving the bell and tongues by pulling the cord, as described, the tongues as they are revolved will move outward and one
20 after the other strike against the end of the arm W and swing it, and through its cords pull upon the plate T and cause the legs and arms to move up and down, imitating more or less the movements of dancing, the sudden-
25 ness with which the blow is given to the arm by the tongues as they are revolved serving to heighten the effect. The striking of the arm W by the tongues causes the tongues to fall back and strike the bell, sounding the same.
30 Thus, so long as the bell and tongues revolve, a succession of movements are given to the image and blows to the bell, producing quite a pleasing and novel effect. The two arms l' adapt the swinging arm W to operate upon
35 the image, whether it swings to the right or left, to suit either way the bell-tongues are revolved.

On the upper side of the disk or plate C, near its outer edge, outside of the edge of the
40 bell, is printed a series of numbers, p' , in a circular line concentric with the spindle D, and secured to the plate C is a plate, Y, having a series of scallops, o' , in its edge, the points q' between the scallops being over the
45 spaces between the figures p' for the figures to show between the points, as shown in Fig.

2. On the bottom of each bell-tongue is attached a pin or drop, r' , hung by an eye, s' , of the tongue, for it to freely swing there-
50 from. The object of these figures is as follows: As the tongues are revolved, as above described, when they stop the drops will be suspended over some one of the figures p' , or one of the division-points q' of the plate Y;
55 if over a figure, such figure is counted toward an amount designated as "game," and if over one of the division-bars, as "nothing," or in any desired manner, so that with two persons revolving the bell and tongues a game can be
60 played, as is obvious. Only one tongue need be used, or more than two; also, the image can be made to dance by operating its arms by hand, or in any suitable manner, without striking it by the bell-tongues.

65 The slots in the arms s of the sleeve L allow free radial movement within certain limits of the tongue, but prevent lateral movement

thereof; also, any suitable image can be used and adapted to be operated by the arm W, and it can have its limbs operate and move
70 in any suitable manner. The plate Y can be dispensed with, and marks on the figure-plate C between the figures be made or the space be left free.

I do not claim, broadly, the connecting of the
75 arms and legs of the image by slots to operating mechanism; but,

Having thus described my invention, what I claim is—

1. The combination, with a bell and one or
80 more tongues adapted to be revolved in any suitable manner on a support, of an image suitably constructed and supported in proximity to said bell and connected to a swing-
85 ing arm having one end located in position for said tongue or tongues to strike said arm as it or they are revolved.

2. The combination, with a bell and its
90 tongues adapted to be revolved in any suitable manner on a support, of an image suitably constructed and supported and connected by cords m' to arms l' of an arm, W, adapted to swing in the supporting-frame and in position to be operated upon by said tongue or
95 tongues in the revolving of the same.

3. The combination, with an arm, W, adapted
95 to swing in a suitable support, of an image having its arms and legs connected by slots to a plate, T, which plate is connected by cords m' to arms l' of said arm W, substan-
100 tially as and for the purpose specified.

4. The combination, with a bell and its
105 tongue or tongues adapted to be revolved in any suitable manner, of a plate below the bell provided with figures, substantially as and for the purpose specified.

5. The combination, with a bell and its
110 tongue or tongues adapted to be revolved in any suitable manner, of a plate, C, below the bell provided with figures, and a plate, Y, above said plate, having radial division-bars
115 q' , substantially as and for the purpose specified.

6. The combination, with a bell secured to a
120 spindle, D, adapted to revolve in suitable bearings, of a sleeve having cross-bar r , carrying the bell tongue or tongues and adapted to revolve upon the pin-bearing f of the spindle, substantially as and for the purpose specified.

7. In combination with a bell secured to a
125 spindle adapted to revolve in any suitable manner, a tongue or tongues suitably supported around said bell and adapted to receive their movement from friction on the spindle, for the purpose specified.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

AUGUSTE T. ROUSSEAU.

Witnesses:

EDWIN W. BROWN,
GEORGE A. ROUSSEAU.