

No. 813,306.

PATENTED FEB. 20, 1906.

I. KINMAN.
TOY.

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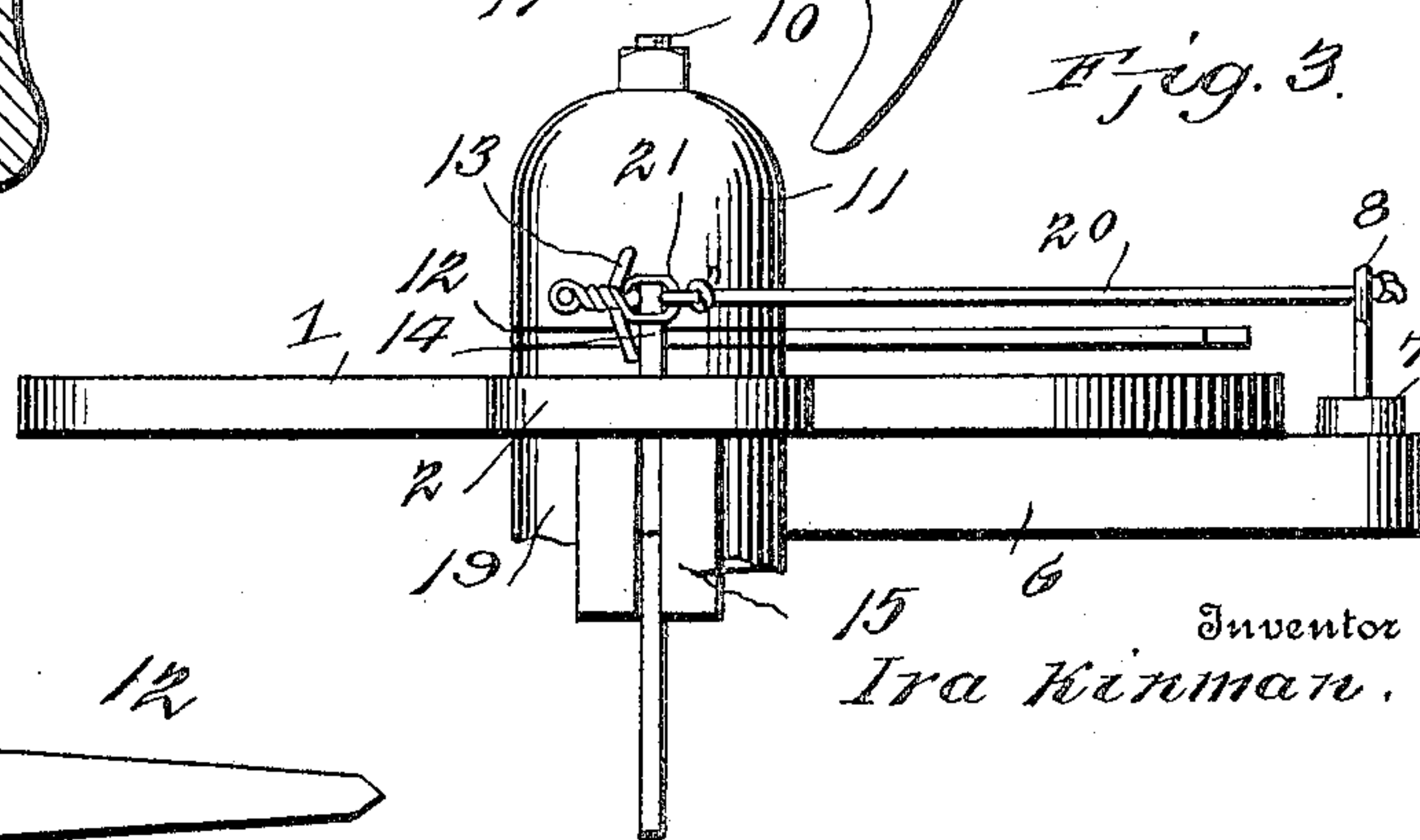
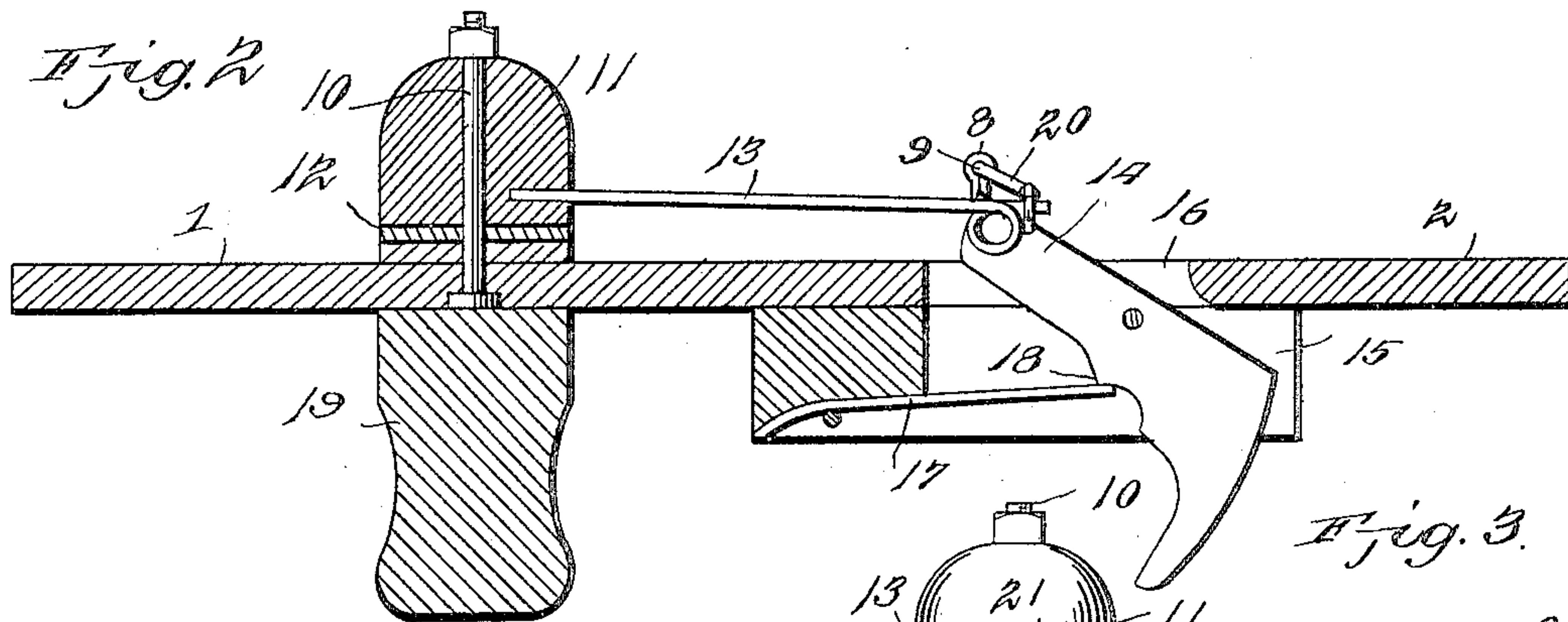
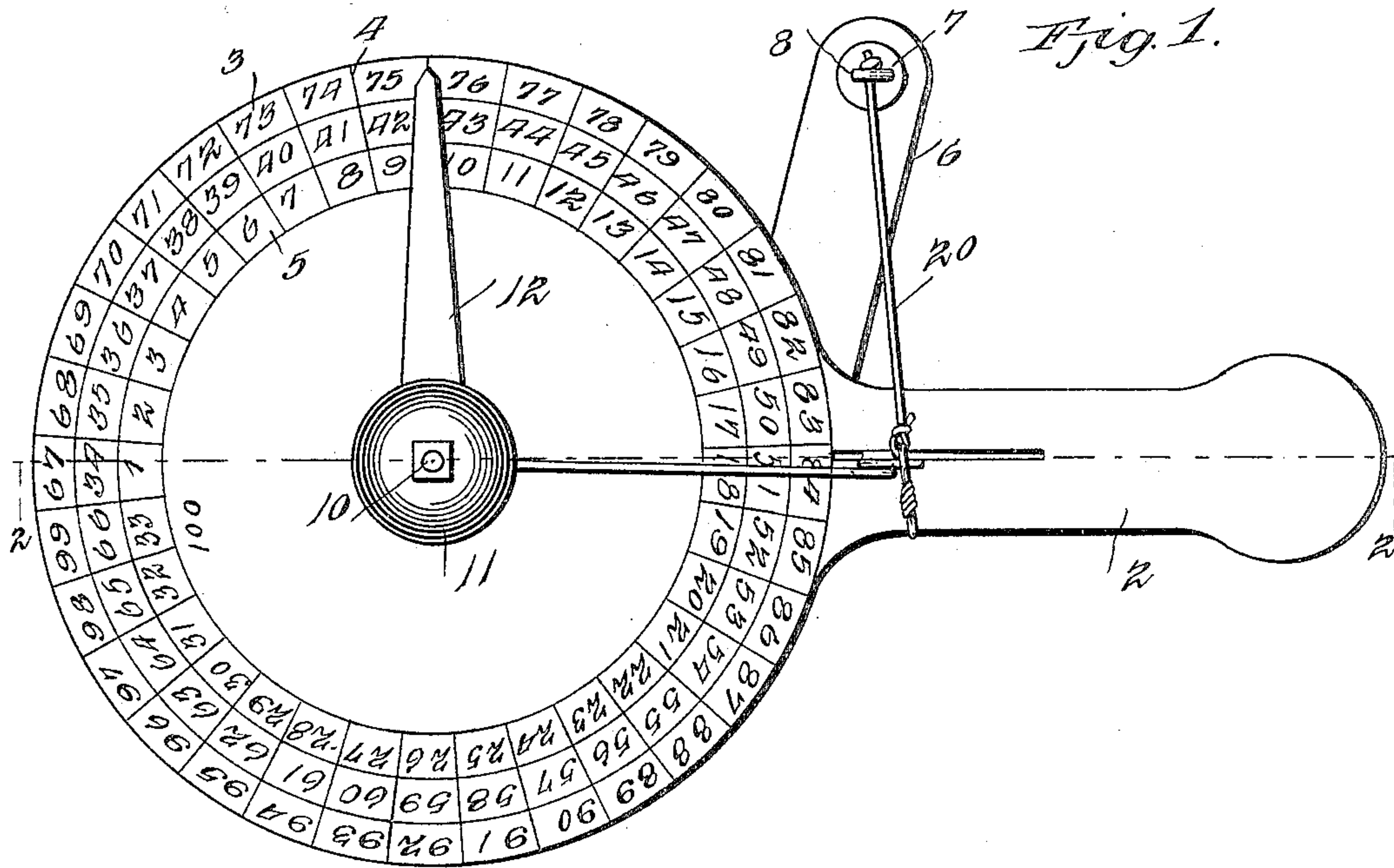
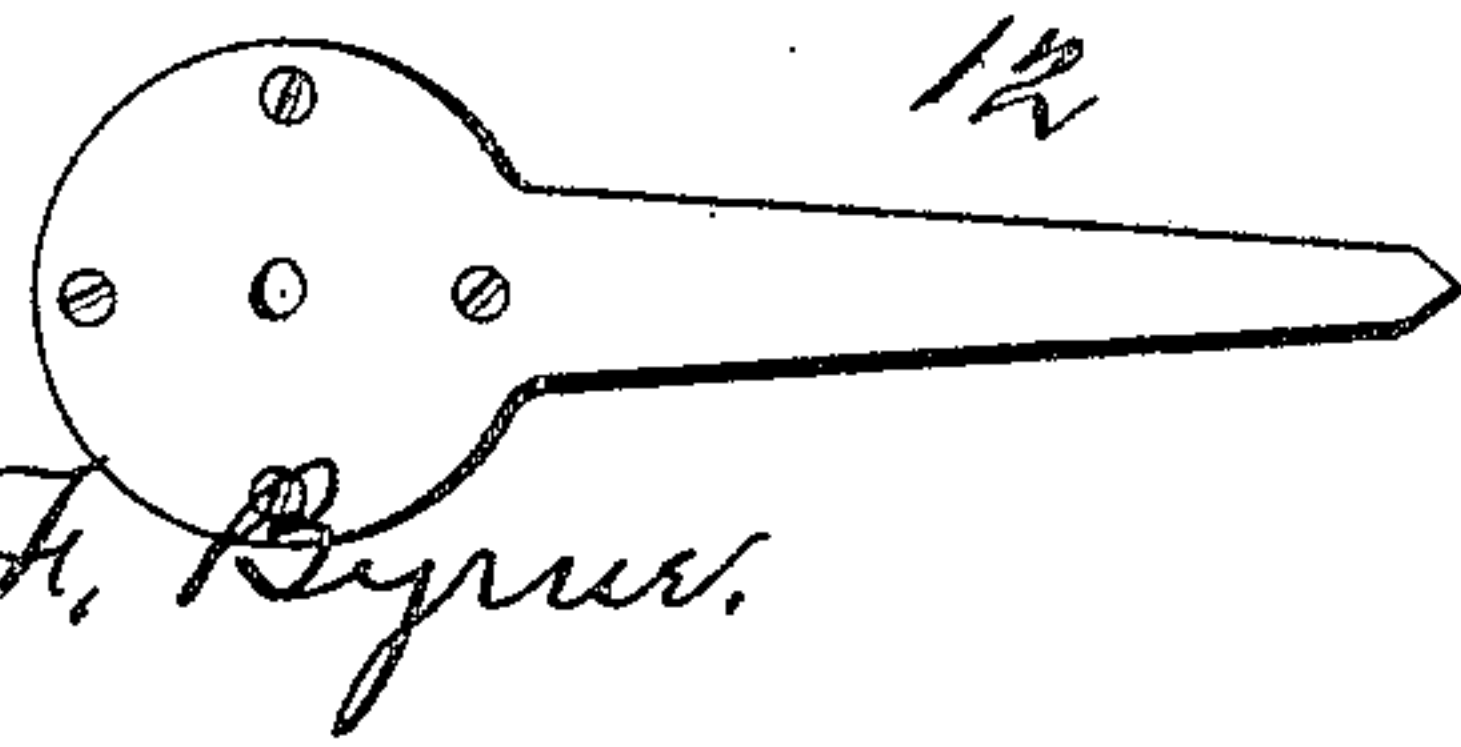


Fig. 4.



Witnesses
Frank Hough

John F. Byrum.

By

Victor J. Evans

Attorney

Inventor
Ira Kinman.

UNITED STATES PATENT OFFICE.

IRA KINMAN, OF PEARL CITY, ILLINOIS.

TOY.

No. 813,306.

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To all whom it may concern:

Be it known that I, IRA KINMAN, a citizen of the United States, residing at Pearl City, in the county of Stephenson and State of Illinois, have invented new and useful Improvements in Toys, of which the following is a specification.

This invention relates to toys, and has for its objects to produce a comparatively simple inexpensive device of this character which will afford amusement for children and one which combines with its amusing qualities the further function of an educational device.

A further object of the invention is to provide a device of this character, including a dial and a movable member or pointer, in which the pointer may by the operation of a trigger be released and caused to travel over the dial and one wherein the position of the pointer upon cessation of its movement will be governed by chance.

With these and other objects in view the invention comprises the novel features of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a top plan view of a device embodying the invention. Fig. 2 is a section taken on the line 2 2 of Fig. 1 and viewed in the direction of the arrow. Fig. 3 is a rear view looking toward the end of the handle. Fig. 4 is a detail view of the pointer.

Referring to the drawings, 1 designates a dial provided with a handle 2 and having a plurality of concentric rows of numerals 3, subdivided by radial lines 4 into columns 5, there being attached to the body 1 and projecting laterally at substantially right angles from the handle 2 an arm 6, provided at its outer end with a bearing 7, in which is seated the lower end of a clamping member 8, preferably formed from a length of wire folded, as seen in Fig. 3, to produce a pair of cooperating clamping-jaws having at their upper ends an entrance-opening 9.

Fixed centrally of the dial 1 is a post or axle 10, on which is arranged for rotation a member or hub 11, in which is fixed a pointer 12, designed to travel over the dial, and a rigid element or arm 13, disposed at substantially right angles to the pointer and adapted for engagement with a trigger 14, pivoted between bearings 15, disposed beneath the handle in which is formed a slot 16, through which the trigger moves, there being at-

tached to the jaws 15 a spring 17, adapted for engagement with a bearing portion or projection 18 on the trigger for holding the latter in engaging or non-engaging positions, while attached to the normally lower face of the dial 1 at a point centrally beneath the hub 11 is a knob or end piece 19.

Engaged at one end with the clamping member 8 is a spring-tension element 20, preferably comprising a length of elastic cord and equipped at its free end with an engaging portion or loop 21, formed to engage the outer free end of the arm 13 for exerting tension to rotate the hub 11, the clamping member 8 being rotatable in the bearing 7 for winding the cord 20 to vary its tension.

In practice the outer end of arm 13 is engaged with trigger 14, which is maintained in set or engaging position by the spring 17 bearing at one side of the projection 18, as seen in Fig. 2, the loop 21 being thereafter engaged with the outer end of the arm. The operator then grasps the end piece 19 with one hand and with a finger of the other hand operates the trigger for releasing the arm, whereupon the element 20 will exert a tensile power for rotating the hub 11 and moving the pointer over the dial. When the pointer comes to rest, that column 5 of figures to which it points is to be added and the total number credited to the player, it being understood that the next player operates the device in a similar manner and is credited with the total of the numbers in the column indicated by the pointer, the one who receives the highest number being the winner. It is apparent from this operation that aside from the amusement afforded the device will aid children in learning to add and subtract.

From the foregoing it is apparent that I produce a simple device admirably adapted for the attainment of the ends in view, it being understood that in attaining these ends minor changes in the details herein set forth may be resorted to without departing from the spirit of the invention.

Having thus fully described my invention, what I claim is—

1. In a device of the class described, a dial bearing characters on its face, a pointer rotatively mounted on the dial for travel thereover, an arm connected with the pointer, a pivoted trigger designed for engagement with the arm to hold the pointer against movement, a spring-tensioned element adapted to act upon and for imparting movement

to the pointer, and means for varying the tension of the element.

2. In a device of the class described, a dial bearing characters on its face, a pointer rotatively mounted on the dial for travel there-
5 over, an arm connected at one end with and projecting from the pointer, a trigger designed to engage the arm for holding the pointer against movement, a clamping mem-
10 ber sustained at a point remote from the trig-

ger and adapted for rotation, and an elastic element engaged with the clamping member and adapted for engagement with the arm.

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

IRA KINMAN.

Witnesses:

J. F. RUSH,
W. H. ELY.