

No. 793,738.

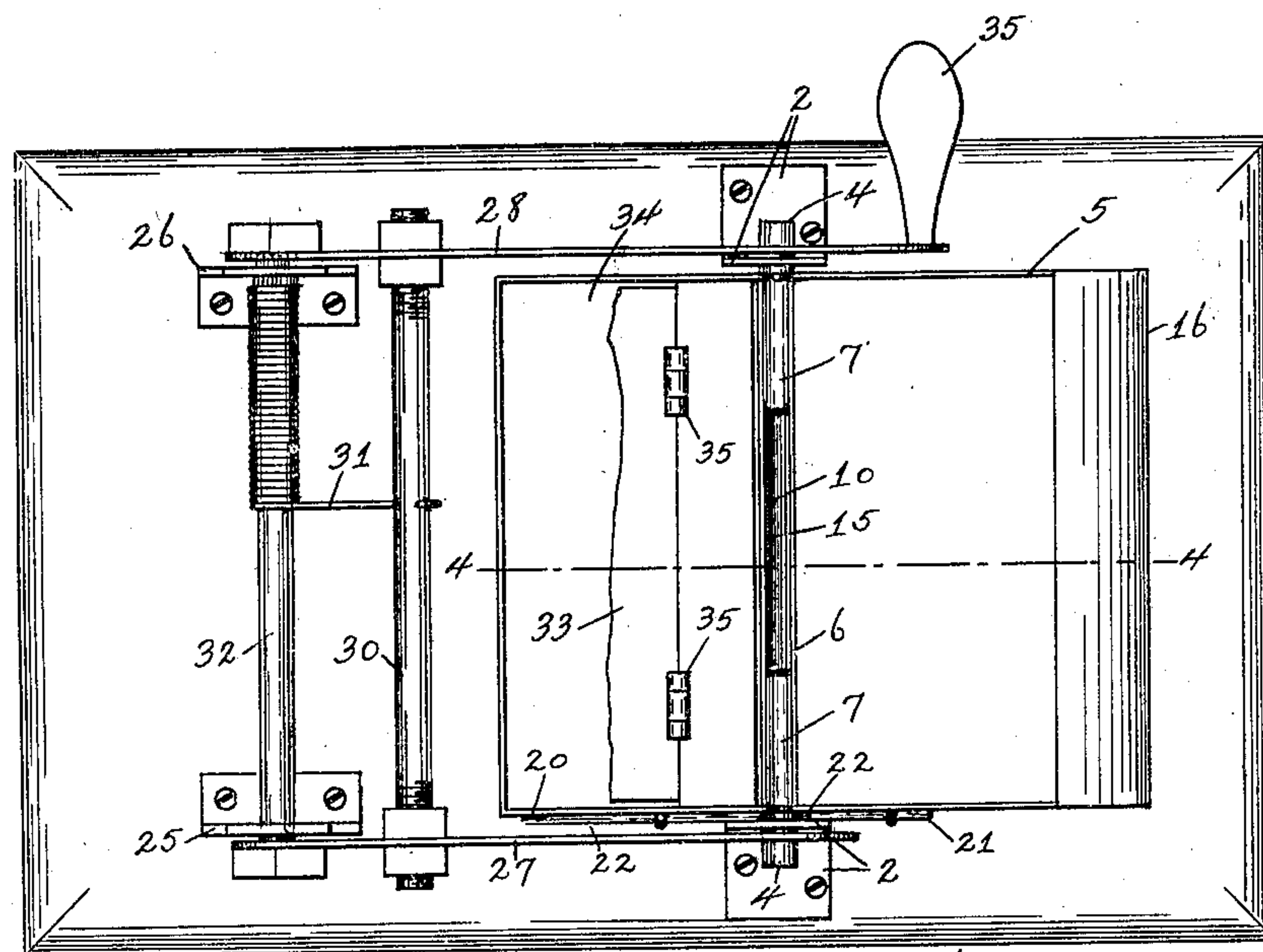
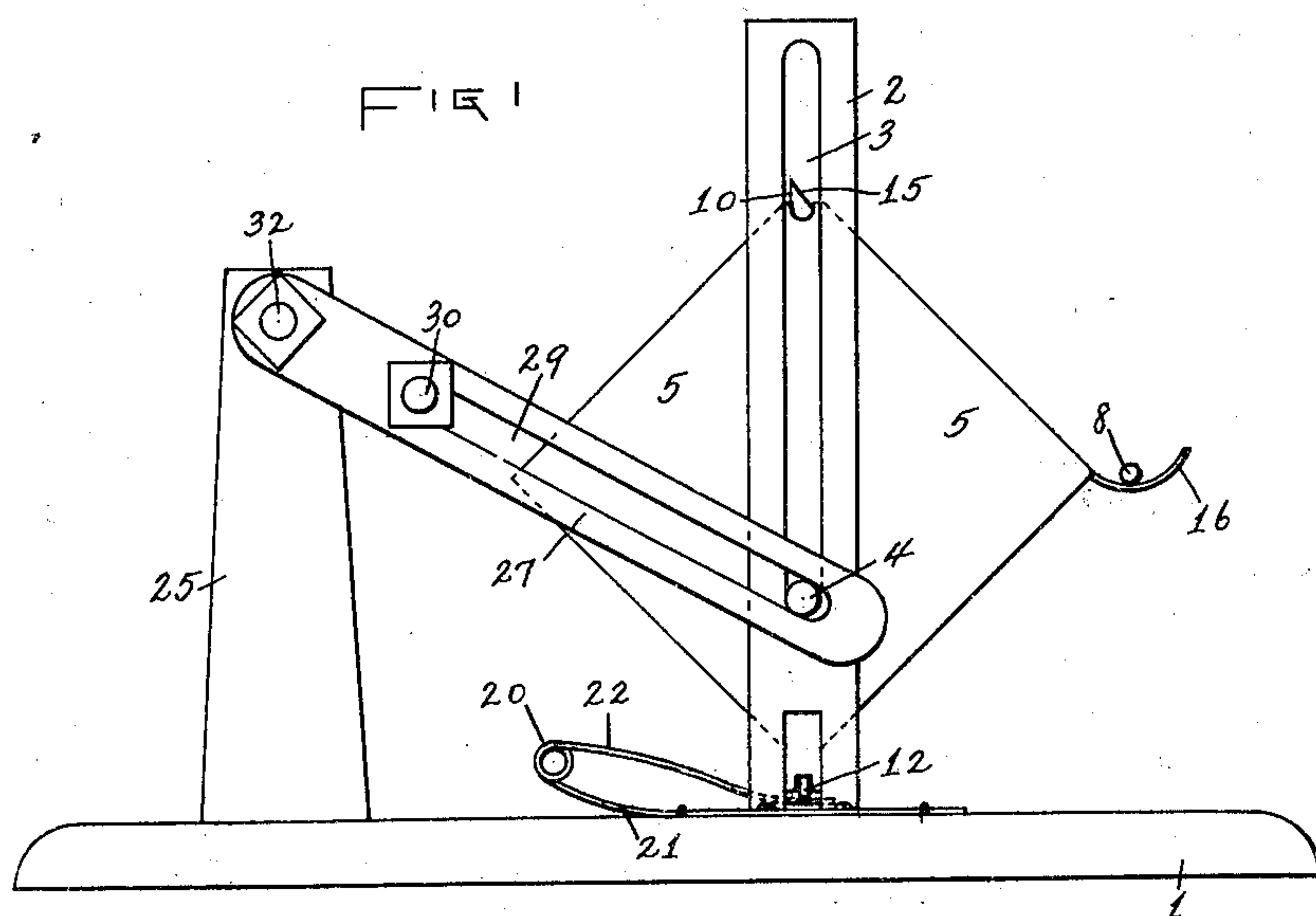
PATENTED JULY 4, 1905.

G. E. PARKER.

MATCH SAFE.

APPLICATION FILED NOV. 14, 1904.

2 SHEETS—SHEET 1.



WITNESSES  
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E. M. O'Reilly.

INVENTOR  
George E. Parker  
By Mosher & Curtis  
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2 SHEETS—SHEET 2.

FIG 3

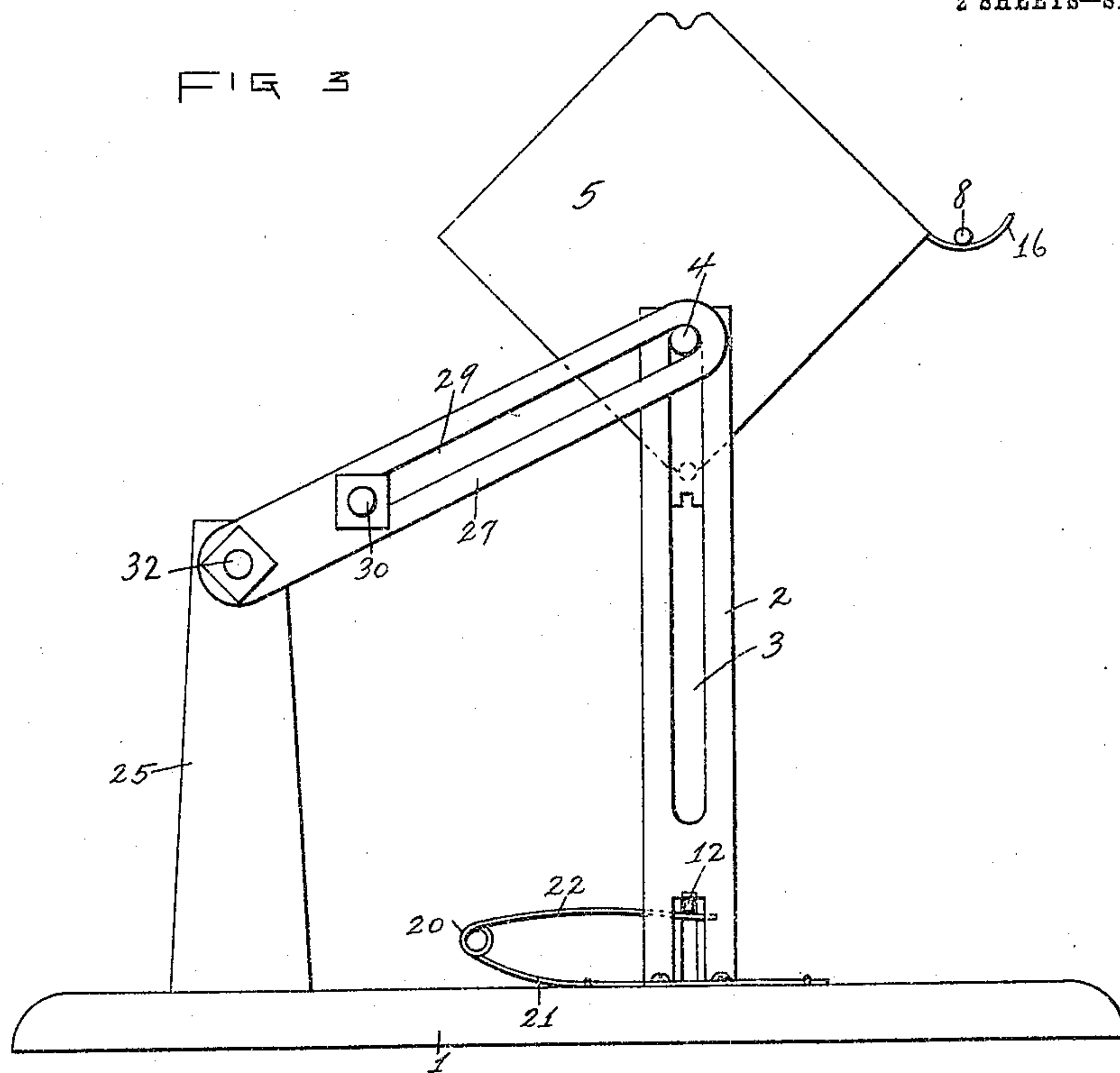


FIG 5

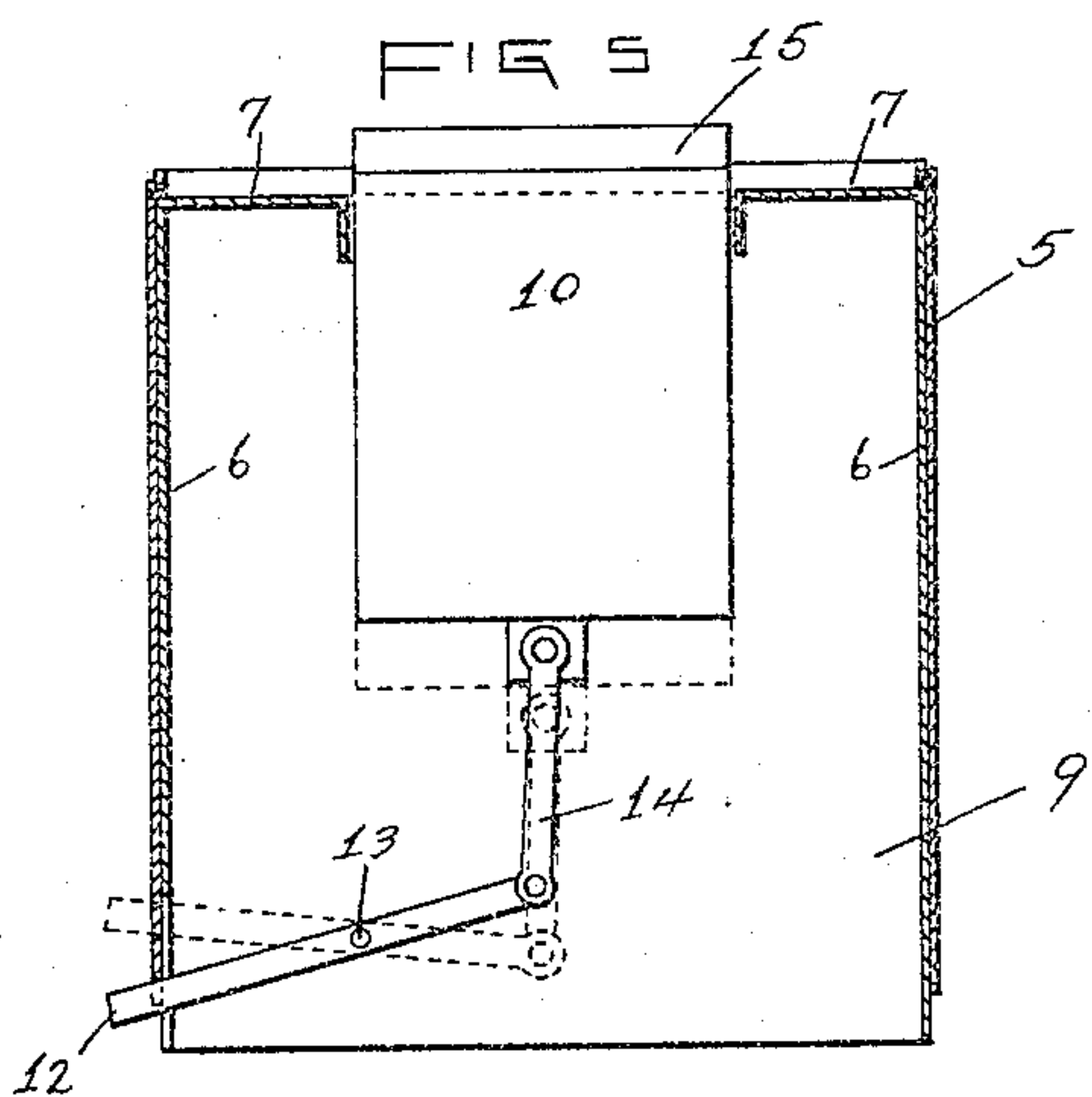
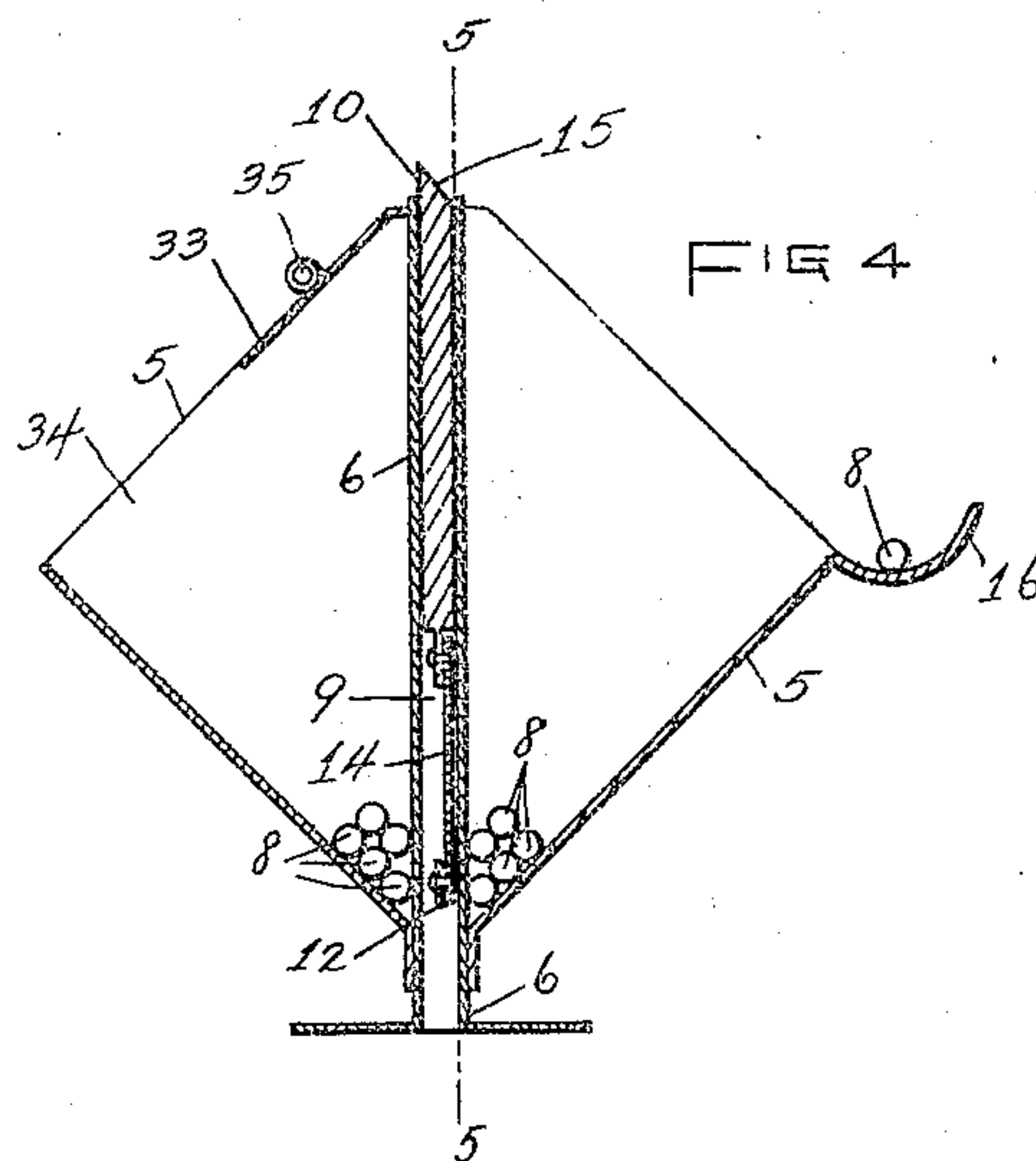


FIG 4



WITNESSES

J. B. Booth.  
E. M. O'Reilly.

INVENTOR

George E. Parker,  
By Mosher & Curtis,  
Attys.



# UNITED STATES PATENT OFFICE.

GEORGE E. PARKER, OF AMSTERDAM, NEW YORK, ASSIGNOR OF ONE-HALF  
TO HENRY G. PARKER, OF NEW BRUNSWICK, NEW JERSEY.

## MATCH-SAFE.

SPECIFICATION forming part of Letters Patent No. 793,738, dated July 4, 1905.

Application filed November 14, 1904. Serial No. 232,611.

*To all whom it may concern:*

Be it known that I, GEORGE E. PARKER, a citizen of the United States, residing at Amsterdam, county of Montgomery, and State of New York, have invented certain new and useful Improvements in Match-Safes, of which the following is a specification.

The invention relates to such improvements; and it consists of the novel construction and combination of parts hereinafter described and subsequently claimed.

Reference may be had to the accompanying drawings, and the reference characters marked thereon, which form a part of this specification. Similar characters refer to similar parts in the several figures therein.

Figure 1 of the drawings is a view in side elevation of my improved match-safe, showing the receptacle in its lowest position. Fig. 2 is a top plan view of the apparatus shown in Fig. 1. Fig. 3 is a view similar to that shown in Fig. 1, showing the match-receptacle in an elevated position. Fig. 4 is a vertical cross-section of the match-receptacle and inclosed parts, taken on the broken line 4 4 in Fig. 2. Fig. 5 is a vertical section taken on the broken line 5 5 in Fig. 4, showing the match-ejecting mechanism in side elevation.

Secured to the base 1 are oppositely-disposed uprights 2, each provided with a slot or slideway 3, adapted to receive the studs 4, projecting from opposite sides of the match-receptacle 5.

The match-receptacle is rectangular in cross-section, preferably approximately square in cross-section. Two of the oppositely-disposed corners of the receptacle are provided with a slot or opening adapted to receive and fit a supporting-guide 6, erected from the base 1 and fixed thereupon, whereby the receptacle is capable of vertical slide movements on such supporting-guide and can be moved vertically from the position shown in Fig. 1 to that shown in Fig. 3 and back again, the studs on the receptacle moving in their containing slots 3.

The top or upper edge of the supporting-guide is provided with a groove or channel 7,

extending the full length of the opening in the upper corner of the receptacle, so that when the receptacle is supplied with matches 8, as shown in Fig. 4, the matches will lie on each side of the supporting-guide and contiguous thereto, and when the box is elevated to the position shown in Fig. 3 the top of the guide rests in the slot in the lower corner of the receptacle, causing a single match, which is adapted to approximately fill the groove in the upper end of the guide, to enter such groove and rest therein. Then after a vertical downward movement is imparted to the receptacle until it reaches the position shown in Fig. 1 the match will be carried up through the opening in the upper corner of the receptacle exteriorly of the receptacle.

As a means for moving the match from the guide-groove after the same has been forced up from the receptacle I provide an ejector 10, consisting of a thin plate adapted to have a vertical movement within the supporting-guide, the guide being made, preferably, with a chamber 9, adapted to receive the same. When the receptacle is in an elevated position, as shown in Fig. 3, the normal position of the ejector is such that it is wholly contained within the chamber in the guide beneath its upper end. As a means for elevating the ejector when the receptacle is at its lowest position (shown in Figs. 1 and 4) I provide a lever 12, (shown in Fig. 5,) fulcrumed upon one of the chamber-walls of the guide at 13, the inner end of the lever being pivotally connected by link 14 with the lower edge of the ejector. The outer end of the lever projects beyond the guide and is adapted to be engaged by the match-receptacle when the same is lowered to the position shown in Figs. 1 and 4 and actuate the lever to force the ejector upward above the guide to the position shown in Figs. 1, 4, and 5, thereby lifting the match from its supporting-groove in the guide.

The ejector being provided with a beveled edge 15, as shown in Figs. 1 and 4, the match is forced to the right and rolls down the inclined side of the receptacle onto the supporting tray or platform 16, the match being shown thereon in Figs. 1, 3, and 4, which match can



be removed by the fingers, the other matches in the receptacle being concealed from view and out of reach, thereby preventing the ordinary user from getting more than one match at a time from the receptacle.

By repeating the vertical movements of the receptacle a match will be delivered each time the receptacle is moved up and down from one position to the other.

When the receptacle is raised from the position shown in Fig. 1, the spring 20, having one arm 21 fixed to the base and the other arm 22 resting under the projecting end of the lever, lifts the lever and depresses the ejector, withdrawing it wholly within the supporting-guide, so that the guide is adapted to receive another match when the receptacle is elevated to the position shown in Fig. 3.

As a means for imparting to the receptacle vertical movements I provide the uprights 25 and 26, fixed upon the base, and a frame consisting of the arms 27 and 28, pivotally secured to such uprights, each arm being provided with a slot-slideway 29, adapted to receive the projecting end studs of the receptacle, the arms being secured together, as by the rod 30, so as to rigidly connect them together. One or both of the arms is provided with a handle or finger-piece 35, by which the arms can be positively depressed, forcing the receptacle to its lowest position, and when the actuating-arms are released the spring 31, coiled upon the cross-rod 32, secured at one end to one of the supporting-uprights, with the other end passed under the binding-rod 30, serves to lift the frame and match-receptacle to the elevated position. (Shown in Fig. 3.)

One of the upper inclined sides of the receptacle may be wholly open to receive a new supply of matches from time to time, and such opening may be provided with any known door or removable covering, hinged or otherwise secured to the receptacle, or the matches may be inserted one at a time through the slot-opening in the upper corner, through which the guide-support passes when the receptacle is at its lowest position, the match being inserted when the receptacle is in an elevated position.

I am thus able to provide a cheap match-safe which can be easily operated to deliver one match at a time from the inclosing receptacle to a receiving-tray located exteriorly of the receptacle, from which it can be easily removed by the user.

An opening 34 in one of the upper sides of the receptacle is shown in Fig. 2, and a door 33, partly broken away, is shown secured to the receptacle-frame by hinges 35, adapted to close such opening.

The ejector 10 is shown at the limit of its upward vertical movement by the solid lines in the various figures, and in Fig. 5 the limit

of its downward vertical movement is shown by the dotted lines.

I intend to make use of the apparatus shown herein for the purpose of containing and delivering toothpicks in the manner above described in reference to matches, the mechanism being equally well adapted for delivering toothpicks from the receptacle one at a time to the exterior platform, as described in reference to the matches.

What I claim as new, and desire to secure by Letters Patent, is—

1. A match-safe comprising a base; a chambered guide erected therefrom and having a match-groove in its upper end; a match-receptacle provided with oppositely-disposed slots adapted to receive the guide; an ejector vertically movable to and from the guide-chamber into the match-groove for ejecting matches from the groove; means for communicating vertical movements to the receptacle, and means for communicating vertical movements to the ejector, substantially as described.

2. In a match-safe, the combination with a supporting-base; of a chambered guide erected therefrom and provided with a match-groove in its upper end; a receptacle provided with oppositely-disposed upper and lower slots adapted to receive the guide; an ejector located within the guide and movable vertically through the match-groove; means for communicating vertical movements to the receptacle; and an operative connection between the ejector and the receptacle whereby a downward movement of the receptacle produces an upward movement of the ejector through the match-groove, substantially as described.

3. In a match-safe, the combination with a support, and a guide erected therefrom; of a match-receptacle approximately square in cross-section having slot-openings in two of its oppositely-disposed corners adapted to receive the guide; means for imparting vertically-reciprocating movements to the receptacle; means for imparting vertically-reciprocating movements to the ejector whereby a match may be ejected from the match-groove in the upper end of the guide, and a platform or tray below the upper guide-receiving slot in the receptacle adapted to receive a match ejected from the match-safe.

4. In a match-safe, the combination with a support; a guide erected therefrom provided at its upper end with a match-receiving groove; a pair of studs projecting from opposite ends of the match-receptacle; a pair of slotted uprights secured to the support adapted to receive and guide the receptacle-studs; a vibratory frame pivotally secured to the fixed support provided with slotted arms each adapted to receive one of the respective studs forming a slideway therefor;

and means for imparting vibratory movements to the vibratory frame whereby vertically-reciprocating movements are imparted to the match-receptacle; and means  
5 for ejecting a match from the match-groove in the upper end of the guide when the match-receptacle is depressed to its lowest level.

In testimony whereof I have hereunto set my hand this 12th day of November, 1904.

GEO. E. PARKER.

Witnesses:

GEO. A. MOSHER,  
E. M. O'REILLY.