

(No Model.)

R. & E. RABIGER.

CIGAR TIP CUTTER AND DICE THROWING APPARATUS.

No. 518,469.

Patented Apr. 17, 1894.

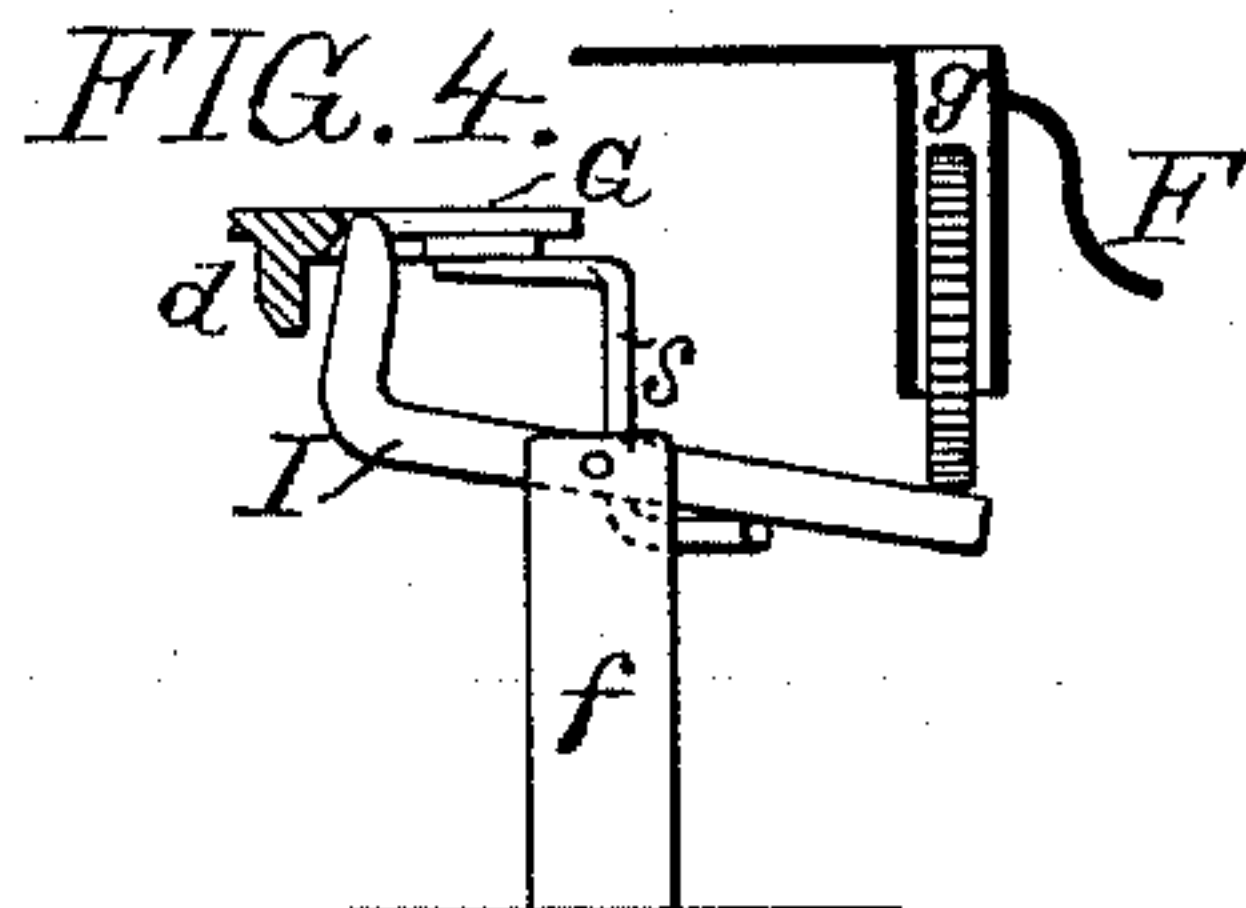
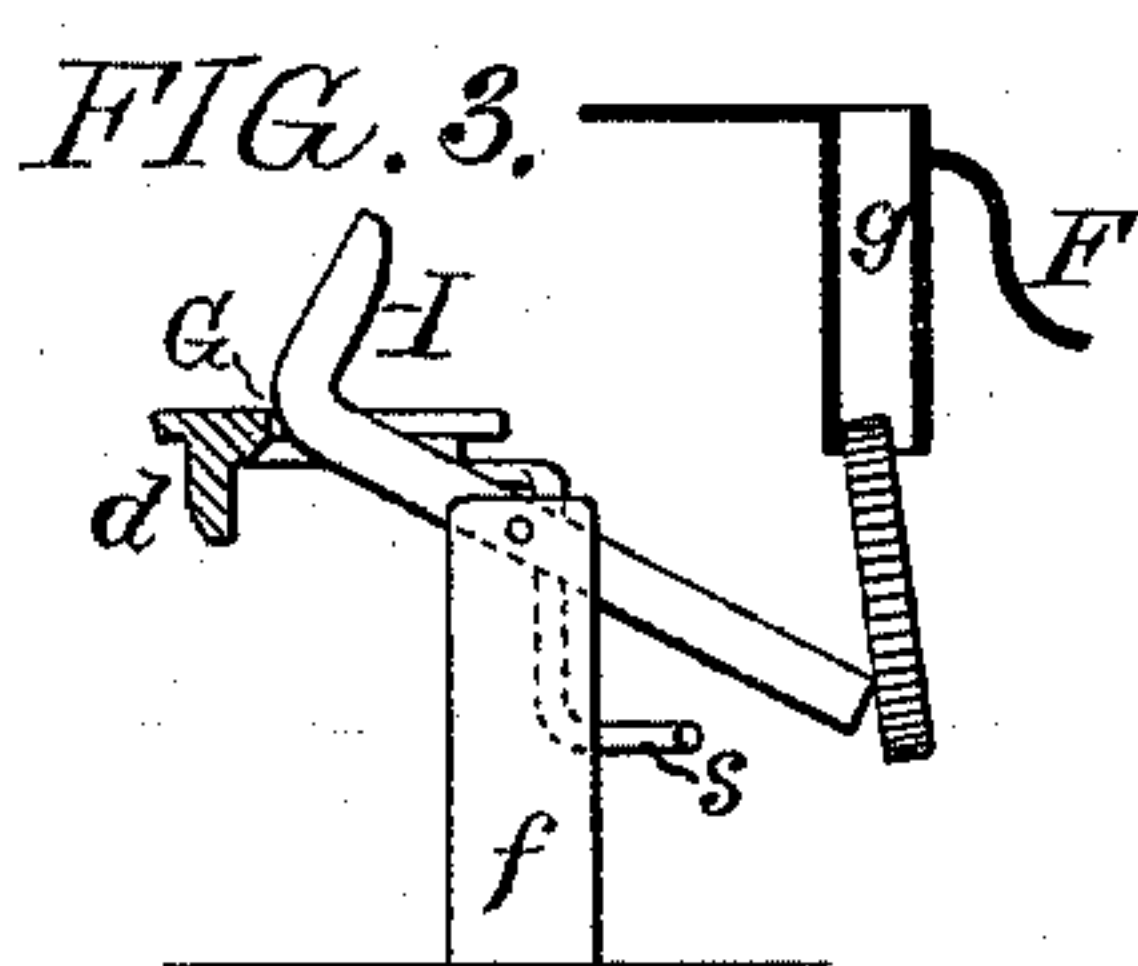


FIG. 1.

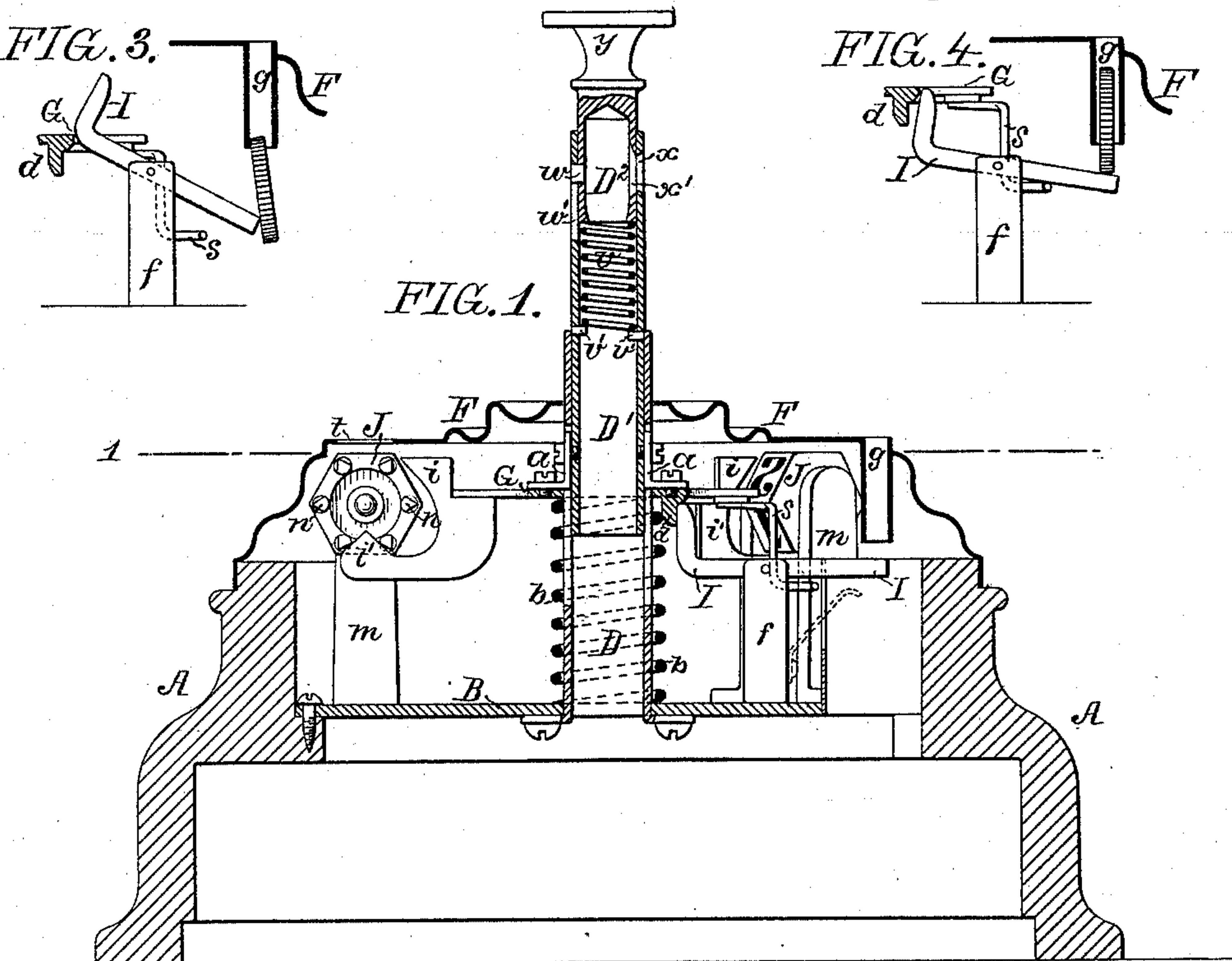


FIG. 2.

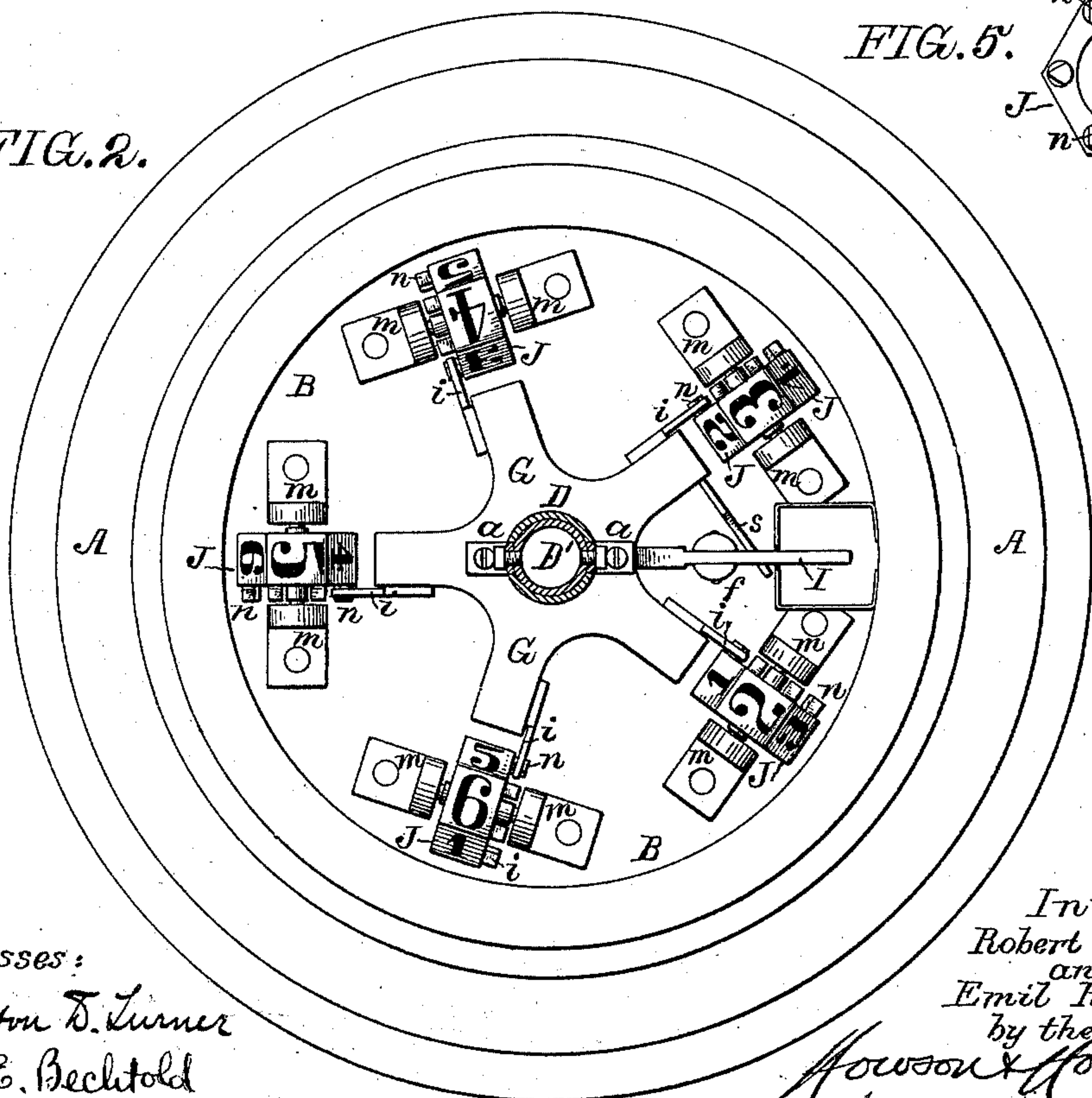
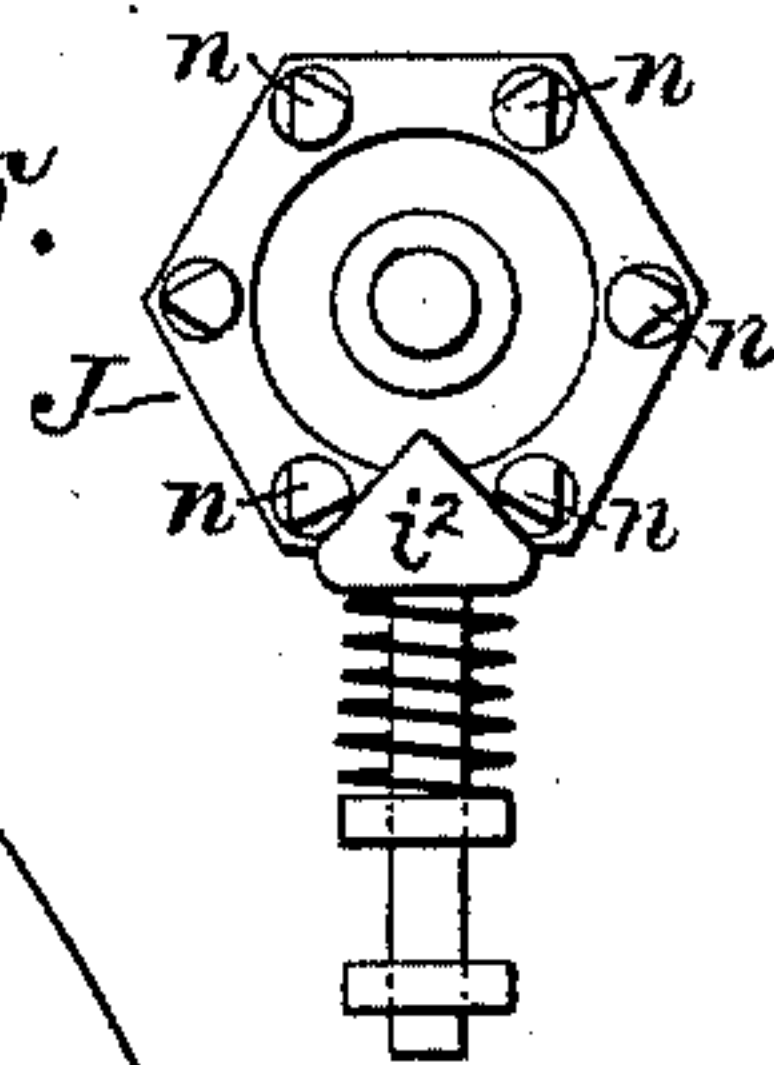


FIG. 5.



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# UNITED STATES PATENT OFFICE.

ROBERT RABIGER AND EMIL RABIGER, OF PHILADELPHIA, PENNSYLVANIA.

## CIGAR-TIP CUTTER AND DICE-THROWING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 518,469, dated April 17, 1894.

Application filed September 21, 1893. Serial No. 486,125. (No model.)

*To all whom it may concern:*

Be it known that we, ROBERT RABIGER and EMIL RABIGER, citizens of the United States, and residents of Philadelphia, Pennsylvania, have invented a Combined Cigar-Tip Cutter and Dice-Throwing Apparatus, of which the following is a specification.

Our invention consists of certain combinations of parts whereby the deposit of a coin in a properly located slot serves to release the mechanism for operating the dice disks, also in certain mechanism for operating and locking said disks and for effecting the discharge of the coin by the movement of said operating devices, and further in the combination of the disk operating mechanism with a cigar tip cutter which is normally operative to sever the tip from the cigar without actuating the dice disks, but which is caused to perform both of these operations when a coin is deposited in the slot.

In the accompanying drawings:—Figure 1, is a vertical section, partly in elevation, of a combined cigar tip cutter and coin-operated dice throwing device, constructed in accordance with our invention. Fig. 2, is a sectional plan view of the same on the line 1—2, with the cover plate removed. Figs. 3 and 4, are detached sectional views of parts of the device illustrating one feature of the invention; and Fig. 5, is a view illustrating a modification of part of the invention.

A represents a hollow base of any suitable shape or dimensions and across this base extends a plate or disk B, to which is secured the lower end of a tube D, which extends up through the cover plate F of the device and serves as a guide for the internal sliding tube D', the latter having brackets *a* which project through slots in the outer tube D and are secured to a plate G which is supported upon a spiral spring *b* surrounding the tube D and seated upon the bottom plate B, so that the tube D' and its plate G are normally supported in an elevated position as shown in Fig. 1, and are locked in this position by the engagement of a lug *d* on the plate G with the upturned inner end of a lever I, hung to a suitable standard *f* projecting upward from the bottom plate B, the outer end of said lever I terminating beneath a tube *g* secured to the cap or cover plate F, this tube being of

such dimensions as to permit of the dropping of a coin through the same. The plate G has a series of radiating arms, five in the present instance, and to each of these arms is secured a pair of fingers *i i'*. To standards *m* projecting upward from the bottom plate B are adapted the journals of a series of dice disks J, one for each of the arms of the plate G, and from one side of each of these dice disks J project six lugs or pins *n* which are in line with the fingers *i i'* of that arm of the plate G which corresponds with said dice disk. The fingers *i'* are beveled and when the plate G is in its elevated or normal position, each finger *i'* projects between the lowermost pair of lugs *n* of its corresponding dice disk and thus locks said disk in position and prevents any accidental turning of or tampering with the same. From one of the arms of the plate G projects a bent arm *s* which terminates beneath the coin receiving lever I, hence when a coin is dropped through the tube G and onto the outer end of said lever, as shown in Fig. 4, the arm *s* stops the descent of the lever as soon as the upwardly bent inner end of the latter has been withdrawn from beneath the lug *d* of the plate G so as to unlock the latter. When the plate G is depressed, however, the support of the arm *s* is removed from the lever I and the latter is permitted to tilt so as to discharge the coin, as shown in Fig. 3, or such tilting will be positively effected by the action of the lug *d* upon the upturned inner end of the lever I on the descent of the plate. When the plate G is moved downward the first effect of such movement is to withdraw the fingers *i'* from between the lugs *n* of the various dice disks, thereby unlocking the latter, the continued downward movement of the plate causing the upper fingers *i* to act upon the lugs *n* of the dice disks and cause the rotation of the latter, the fingers *i'* again locking the disks on the rise of the plate. The top plate or cover F of the device has above each dice disk an opening *t* through which the uppermost number of each disk can be viewed.

Within the tube D' is a second sliding tube D<sup>2</sup> which is supported upon a spring *v* mounted upon inwardly projecting lugs *v'* of said tube D', a projecting lug *w* being adapted to a slot *w'* in the tube D' so as to prevent the



withdrawal of the tube  $D^2$  and limit the movement of the same independently of the tube  $D'$ . In the tube  $D'$  is formed an opening  $x$  and in the tube  $D^2$  is an opening  $x'$  which normally coincides with the opening  $x$  so that a cigar tip passed through the openings will be severed when the tube  $D^2$  is forced downward on the inside of the tube  $D'$  that portion of the tube  $D^2$  bounding the upper side of the opening  $x'$  being sharpened or provided with a cutting knife for this purpose. So long, therefore, as the lever  $I$  locks the plate  $G$  and tube  $D'$  in position the tube  $D^2$  may be depressed in order to cut the tip from a cigar without causing any downward movement of the tube  $D'$ , but if, before cutting the cigar tip, a coin is deposited in the tube  $g$  so as to unlock the plate  $G$  and tube  $D'$ , downward pressure upon the knob  $y$  at the upper end of the tube  $D^2$  will cause first a downward movement of said tube  $D^2$  within the tube  $D'$  and consequent cutting of the cigar tip and compression of the spring  $v$ , and then a downward movement of both tubes, and a compression of the heavier spring  $b$  so that besides cutting the tip from the cigar, the dice disks will be turned and caused to show a series of numbers at the openings  $t$  in the cover plate, the disks being locked in position upon the rise of the parts when pressure is removed from the knob  $y$ .

It will be evident that instead of providing the dice disks with numerals as shown, each numeral may be represented by a series of dots, lugs, or depressions, or the disks may have representations of playing cards formed thereon or applied thereto in place of the numerals.

Instead of employing the supporting arm  $s$  as a means of arresting the downward movement of the lever  $I$  when the coin is first deposited upon the same, we can employ a light spring, such for instance as shown by dotted lines in Fig. 1, this spring being stiff enough to prevent downward movement of the lever under the weight of the coin, but not stiff enough to prevent further movement of said lever under the action of the lug  $d$ . A spring plunger  $i^2$ , as shown for instance in Fig. 5, may also, if desired, take the place of the locking finger  $i'$ , although the latter is to be preferred because when it is used the rotating movement of the dice disks is entirely free from restraint.

Having thus described our invention, we claim and desire to secure by Letters Patent—

1. The combination of a series of dice disks, a spring supported plate having fingers for operating said dice disks, a coin receiving le-

ver for locking said plate, and a cigar tip cutter carried by the plate and having a spring supported knife, the plate supporting spring being stiffer than that which supports the knife, substantially as specified.

2. The combination of the series of dice disks mounted upon horizontal axes and each having a series of projecting fingers at one side, with the spring supported plate having for each of the dice disks an upper and a lower finger so located in respect to the projecting pins of the disk that on the downward movement of the plate the upper finger will strike one of said pins in order to turn the disk forward, and on the upward movement of the plate the lower finger will engage with two of said pins in order to lock the disks in position, substantially as specified.

3. The combination of the series of dice disks, the spring supported plate having disk operating fingers, the coin receiving locking-lever, and means for supporting said lever after the coin is deposited thereupon and the lever has moved sufficiently to unlock the plate, said lever being so constructed and so located that further movement of the plate will cause a further tripping of the lever and the discharge of the coin therefrom, substantially as specified.

4. The combination of the series of dice disks, the spring supported plate having disk operating fingers, the coin receiving lever for locking said plate, and an arm carried by the plate and serving as a stop for the lever when the same has been moved so as to unlock the plate, substantially as specified.

5. The combination of the series of dice disks, the plate having disk operating fingers, a coin receiving and locking lever for said plate, a tube carried by the plate and having an opening therein for receiving the tip of a cigar, and a spring supported cutter mounted inside of the said tube, substantially as specified.

6. The combination of the base frame, a perforated supporting plate therein having a guide tube, a series of dice disks, a plate for operating the same, having a tube adapted to said guide tube and perforated to receive a cigar tip, a coin receiving and locking lever for said plate, and a tip cutter mounted within the perforated tube, substantially as specified.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

ROBERT RABIGER.  
EMIL RABIGER.

Witnesses:

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