

No. 810,801.

PATENTED JAN. 23, 1906.

V. H. PARADIS & J. B. PUTROW.
CIGAR CLIPPER AND MATCH SAFE.

APPLICATION FILED FEB. 15, 1905.

2 SHEETS—SHEET 1.

FIG. 1.

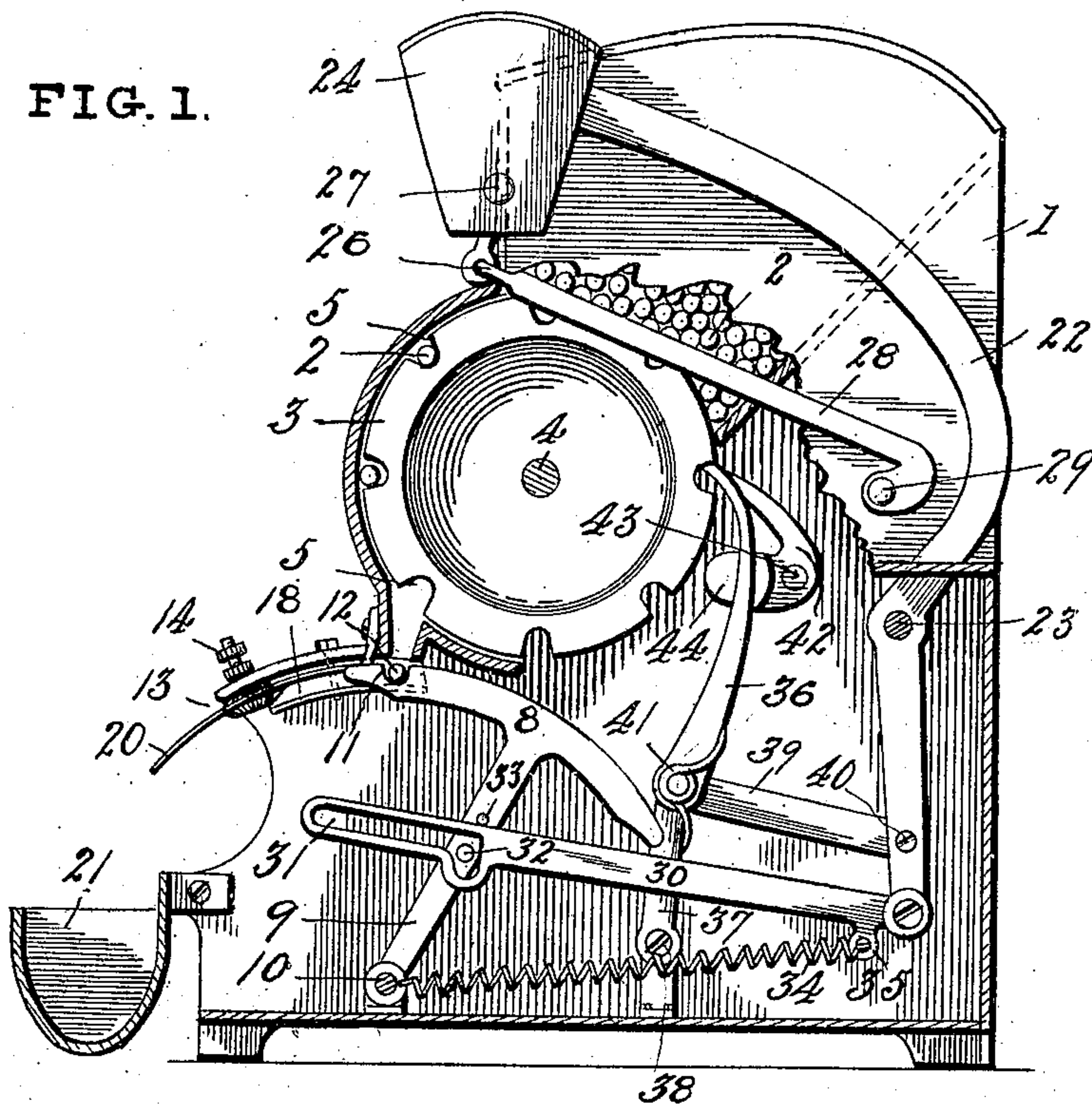
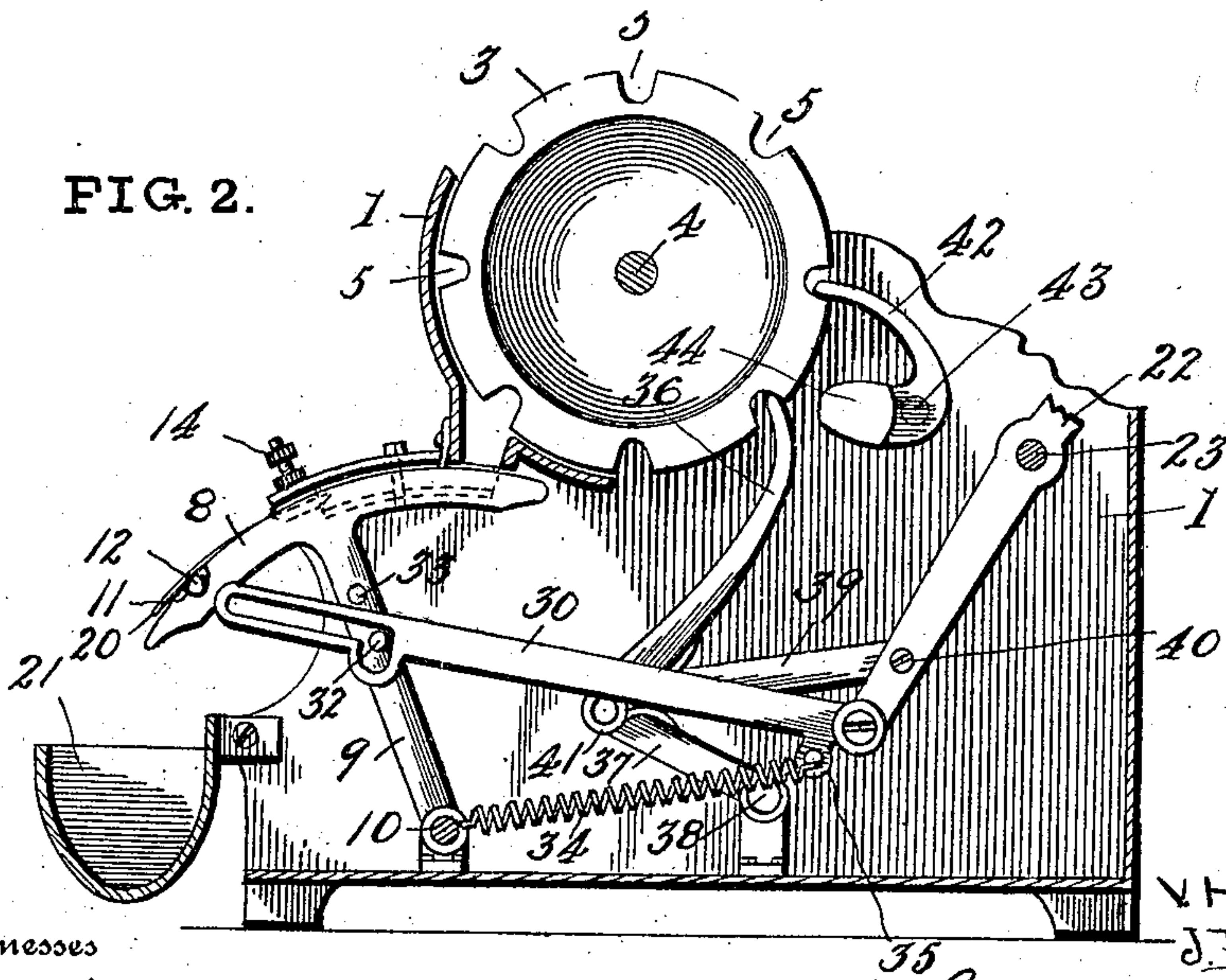


FIG. 2.



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2 SHEETS—SHEET 2.

FIG. 3.

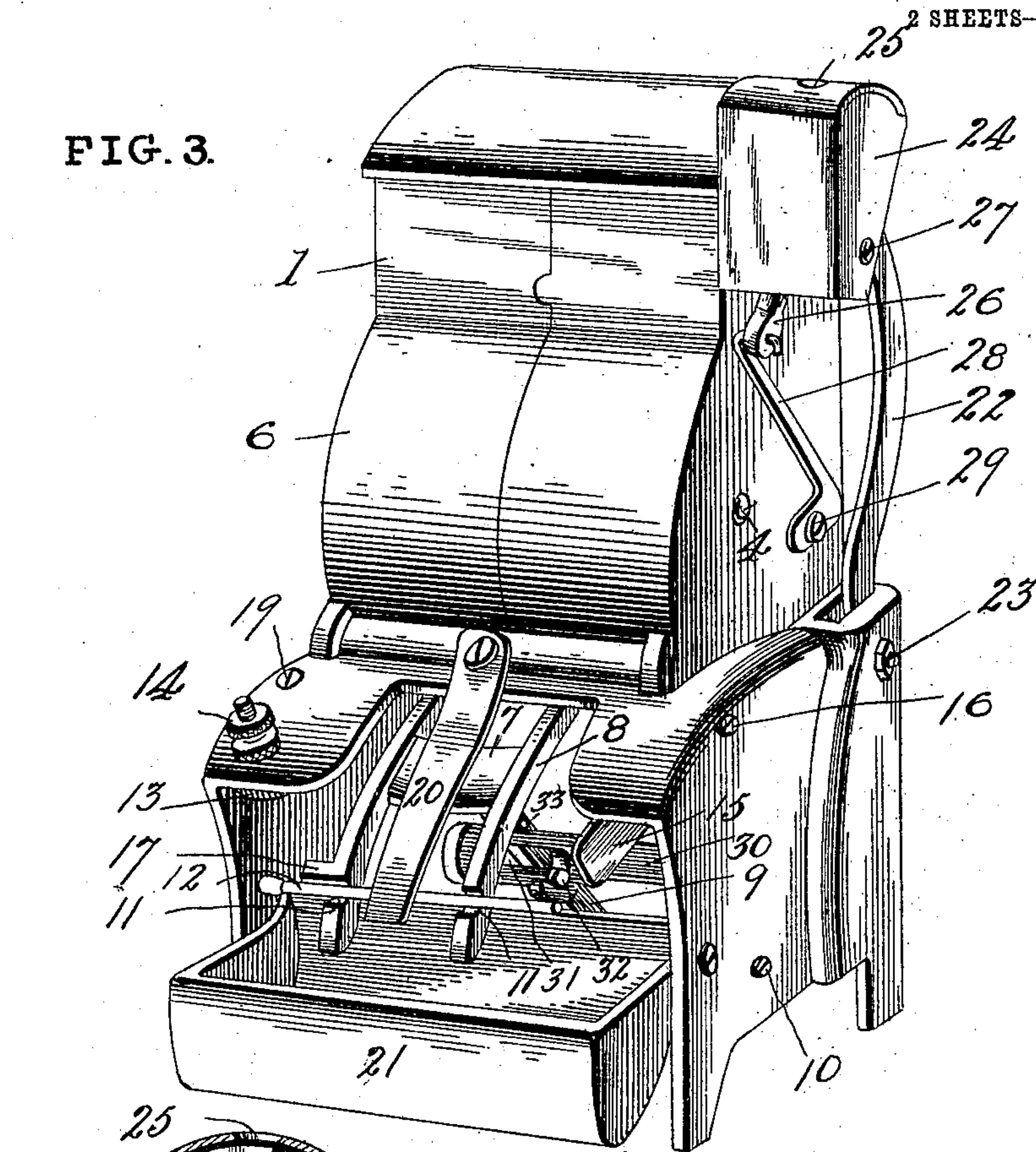
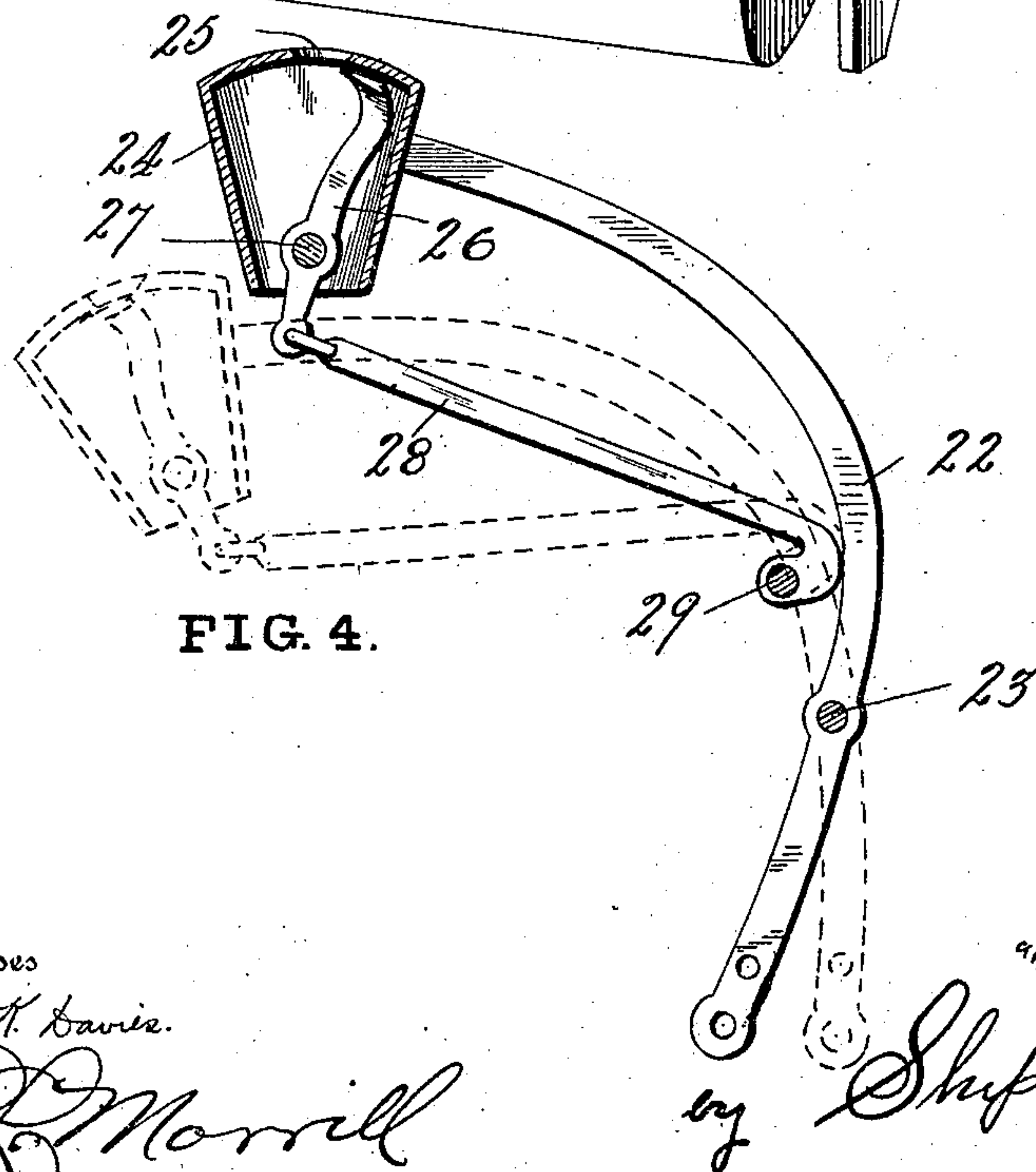


FIG. 4.



Witnesses

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VICTOR H. PARADIS AND JOHN B. PUTROW, OF RICE LAKE, WISCONSIN.

CIGAR-CLIPPER AND MATCH-SAFE.

No. 810,801.

Specification of Letters Patent.

Patented Jan. 23, 1906.

Application filed February 15, 1905. Serial No. 245,707.

To all whom it may concern:

Be it known that we, VICTOR H. PARADIS and JOHN B. PUTROW, citizens of the United States, residing at Rice Lake, in the county of Barron and State of Wisconsin, have invented certain new and useful Improvements in Cigar-Clippers and Match-Safes, of which the following is a specification.

Our invention relates to cigar-clippers and match-safes, and especially to a device wherein the operation of clipping a cigar projects a single ignited match without the case.

The object of our invention is to provide a device for delivering to the operator a single ignited match and which is positively operated by the clipping of a cigar.

A further object of our invention is to provide a match-safe from which a single ignited match is projected and having a receptacle into which the partially-consumed match is automatically projected if not removed for use by the operator.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a view of our improved match-safe in side elevation with part of the casing broken away and showing the operating parts. Fig. 2 is a view in side elevation of the lower part of our improved match-safe with the side of the casing broken away and with the parts shown in the position when the match is about to be projected. Fig. 3 is a perspective view of our improved cigar-clipper and match-safe. Fig. 4 is a detail view, in vertical section, of the cigar-clipper and knife-operating device.

Like characters of reference designate corresponding parts throughout the several views.

Our improved cigar-clipper and match-safe comprises a casing in any approved form and configuration, which may be as shown at 1. Within the case 1 is provided a hopper 2, adapted to contain matches, as indicated at Fig. 1. A drum 3 is conveniently journaled, as at 4, to rotate within the casing 1 and in com-

munication with the hopper 2. The drum 3 is provided with a plurality of longitudinally-disposed grooves 5 of proper proportion and configuration to receive and contain a single match and adapted to be filled while passing the matches contained in hopper 2. Any approved means for holding the matches in the grooves is provided, as the bowed front 6 of the case following circumferentially adjacent the drum 3. Within the casing 1 is also mounted a carrier 7, provided with a pair of bars 8, conforming to an arc and mounted to oscillate upon a radially-disposed arm 9, conveniently pivoted, as at 10. The bars 8 are provided adjacent their outer ends with registering notches 11, proportioned and disposed to receive from the slots 5 of the drum 3 a single match, as 12. A spur-wheel 13 is disposed in the path of the match-head and is conveniently pivoted to the case 1, as by the bolt and nut 14. To the side of the case 1, opposite the spur-wheel 13, is secured a spring 15 by means of the screw 16 or in other approved manner and is disposed to bear against the end of the match opposite the head and to hold the head in contact with the spur-wheel 13 as it is projected without the case by the carrier 7. The bars 8 of the carrier are provided with an offset portion 17, disposed behind the match to prevent breaking, and a spring 18 is secured to the case, as by the screw 19, adapted to support the match-head while contacting with the spur-wheel 13. A spring 20 is also secured to the case and is adapted to bear upon the match and to hold the said match in the notches 11 while being carried by the spur-wheel 13 and to retain it upon the carrier until removed therefrom by the user or until the match is partly consumed, when the spring 20 will force the partly-consumed match into the receptacle 21, disposed below and adjacent to the outer extreme of the carrier.

A lever 22 is conveniently pivoted, as at 23, within the casing and extends upward without the casing. The lever 22 is curved upwardly and forwardly from the pivot 23, and upon the upper and forward end is disposed the cigar-clipping device, comprising a box-like casing 24, provided with a cigar-tip-receiving opening 25, disposed, preferably, within its upper and convexed surface. Within the casing 24 a knife is pivoted, as at 27, and a link 28, secured to the lower end of the

knife-lever, is pivotally connected to the case 1, as at 29. The act of pressing a cigar into the opening 25 will cause a depression of the outward end of the lever 22, and by means of the pivoted link 28 the knife 26 will cross the opening, as indicated in dotted position in Fig. 4. Within the casing 1 and to the lower end of the lever 22 is pivotally connected a link 30, provided with an angular-shaped slot 31, within which is disposed a pintle 32 upon the radial arm 9 of the oscillating carrier. The arm 9 of the carrier is also provided with a lug 33, adapted to contact with the link 30 when the carrier is at the extreme limit of its inward movement. A spring 34 connects the lower end of the carrier-arm 9 with an offset portion 35 of the link 30 and serves to hold the carrier normally at its outward limit and the link 30, with the pintle 32, normally within the offset portion of the slot 31.

A finger 36 is pivotally secured to a link 37, which is pivotally secured in any convenient manner to the casing, as at 38. The finger 36 is adapted to engage the grooves 5 of the drum 3, and a connecting-rod 39 connects the pivot-point of the finger 36 to the lever 22, as at 40, and a spring 41 holds the finger 36 in contact with the drum 3 and to engage the slot 5. A pawl 42, conveniently pivoted to the casing, as at 43, and provided with a weight, as 44, is disposed to engage the slots 5 of the drum 3 and prevent a retroactive movement of the drum.

The operation of our improved cigar-clipper and match - safe is as follows: With the parts disposed as shown in Fig. 1 a cigar-tip is placed in the opening 25, and a pressure thereon depresses the lever 22 to the position shown in Fig. 4, thereby clipping the end of the cigar by the passage of the knife 26 across the opening. Likewise the depression of the lever 22 draws backward the link 30 and through the medium of the pintle 32 draws backward the carrier 7. Simultaneously the connecting-rod 39 is drawn backward, raising the finger 36 and rotating the drum 3, so that at the extreme of the downward movement of the lever 22 the parts are disposed as shown in Fig. 2. The lug 33, contacting with the link 30, forces the said link downward, releasing the pintle 32 from the offset portion, and the carrier, with the match 12 held in the notches 11, is by the tension of the spring 34 exerted on the offset portion 35 projected forward, and the match-head contacting with the spur-wheel in its passage is ignited and held upon the carrier by the spring 20 in such ignited condition.

From the foregoing explanation of the operation of our improved cigar-clipper and match-safe it is obvious that the operation of clipping a cigar positively actuates the match projecting and igniting mechanism and that owing to the fact that there are no springs to

be wound up the mechanism is always set and in condition for instantaneous and reliable action.

It is obvious that the various surfaces of the casing may be used for advertising purposes and that the form of the casing may be changed to more conveniently facilitate its use for the implacement of advertising and that various other changes in the form and minor detail may be made without departing from the spirit of our invention or the scope of the claims.

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

1. In a device of the character described a casing, means for projecting a single match without the casing, means provided in the path of the said movement of the match for igniting the same, means for supporting the ignited match near its ends, a receptacle located under the said supporting means, and means adapted to positively project the match into the said receptacle when it is partially consumed.

2. In a device of the character described, a casing adapted to contain matches, a receptacle adapted to receive burned matches, a carrier adapted to support a single match adjacent to its ends and to project it laterally without the casing, means provided in the path of said movement for igniting the match, a spring capable of holding the match upon the carrier adjacent the receptacle until partially consumed and then forcing it downward into the receptacle, a lever pivotally mounted within and extending without the casing and means whereby the operation of the lever actuates the carrier.

3. In a device of the character described, a case, a hopper within the case adapted to contain matches, a drum provided with longitudinally-disposed grooves mounted to rotate within the case and in communication with the hopper, a carrier mounted to oscillate adjacent to and in conjunction with the drum, means adapting the carrier to project a single match without the case, a spring secured to the case and disposed to bear and hold a match upon the carrier until removed, a serrated surface disposed in the path of the match-head and adapted to contact therewith, a receptacle disposed adjacent the carrier and to receive partially-consumed matches therefrom, a finger disposed to rotate the drum through part of a revolution, a pawl disposed to engage with and prevent retroaction movement of the drum, a spring secured to and adapted to oscillate the carrier to project a match, a link adapted to retract the carrier against the tension of the spring, means for disengaging the carrier from the link when at the extreme of its inward movement, a lever pivoted within and

extending without the case, a cigar-clipper
mounted upon the lever, a knife pivotally
mounted within the clipper-body, means
whereby the pressure of a cigar upon the clip-
5 per depresses the lever and actuates the knife
and means whereby the depression of the le-
ver operates the drum and carrier simultane-
ously and supplementary one to the other.

In testimony whereof we affix our signa-
tures in presence of two witnesses.

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JOHN B. PUTROW.

Witnesses:

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