

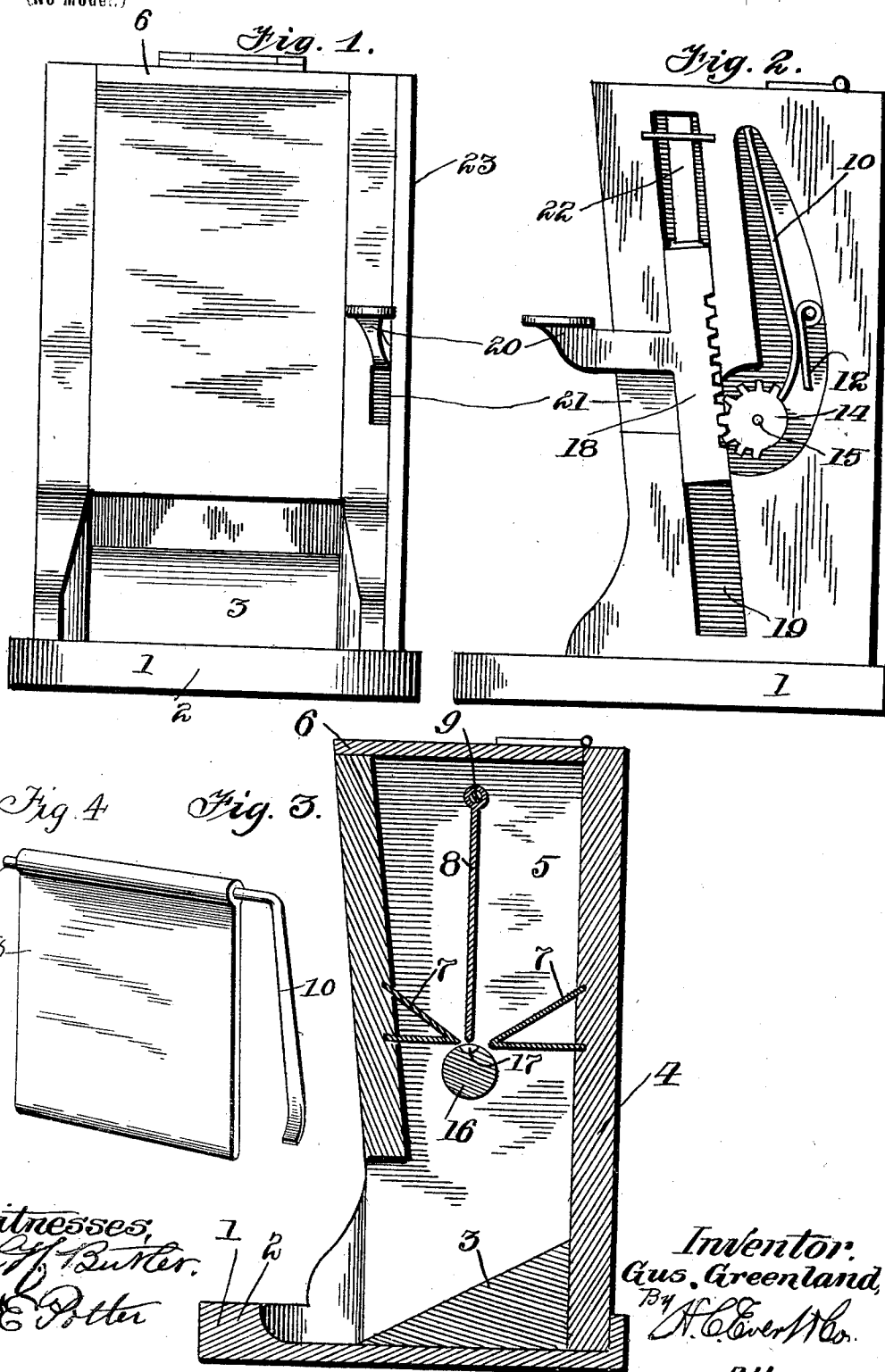
No. 697,245.

G. GREENLAND.
MATCH BOX.

Patented Apr. 8, 1902.

(Application filed Jan. 7, 1902.)

(No Model.)



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UNITED STATES PATENT OFFICE.

GUSTAVE GREENLAND, OF BRADDOCK, PENNSYLVANIA.

MATCH-BOX.

SPECIFICATION forming part of Letters Patent No. 697,245, dated April 8, 1902.

Application filed January 7, 1902. Serial No. 88,813. (No model.)

To all whom it may concern:

Be it known that I, GUSTAVE GREENLAND, a citizen of the United States of America, residing at Braddock, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Match-Boxes, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in match-boxes, and relates more particularly to that class of match-boxes that deliver one match at a time.

The object of the present invention is to provide novel means whereby a large number of matches may be conveniently stored in a receptacle, and by suitable new and novel mechanism one of said matches may be delivered by operating such mechanism.

20 Another object of the invention is to provide a match-box of the above-described character that will be extremely simple, strong, durable, comparatively inexpensive to manufacture, and highly efficient in its use.

25 With the above and other objects in view the invention consists in the novel combination and arrangement of parts to be hereinafter more fully described, and specifically pointed out in the claims.

30 In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate corresponding parts throughout the several views, in which—

35 Figure 1 is a front view of my improved match-box. Fig. 2 is a side elevation thereof, showing the side plate removed. Fig. 3 is a vertical central sectional view of the same. 40 Fig. 4 is a perspective view of the agitator.

In the drawings the reference-numeral 1 represents a suitable base, said base having a forward extension 2 and an inclined inner wall 3. Upon this base 1 is mounted a rectangular frame 4, forming the match-receptacle 5, which is provided with the hinged cover 6, said match-receptacle 5 having inner inclined walls 7 7, which extend downwardly toward the center, but allow an open space 50 therebetween.

The reference-numeral 8 represents an agitator centrally secured within the receptacle and which is secured upon the shaft 9, which is secured within the match-receptacle, said shaft having its one end journaled in the side 55 of the receptacle and having its other end extending through the opposite side of the receptacle and extending downwardly, forming the lever 10, said lever 10 being arranged in the recess 11, formed in the side of the receptacle, in which is secured the spring 12, which presses against the said lever 10, the lower end of the lever operating against the segmental cog-wheel 14, which is mounted upon the shaft 15, carrying the roller 16, secured 65 in the receptacle, said roller having formed therein a groove 17 to receive one of the matches. The segmental cog-wheel 14 meshes with a cog-rack 18, operating in the guide 19, formed in the side of the casing. This cog-rack 18 has formed integral therewith an operating-lever 20, which operates in the opening 21, the upper end of said cog-rack being secured to the rubber band 22, which also operates and extends downwardly in the guide 19. 75

The reference-numeral 23 represents a removable plate secured to the side of the casing.

The operation of my improved match-box is as follows: The hinged cover is raised and the match-receptacle loaded with matches, 80 being arranged on each side of the agitator 8. In order to deliver one of the matches, the operating-lever 20 is lowered, thereby operating the segmental cog 14 from out of engagement with the spring-pressed lever 10 of the shaft 9, which allows the agitator 8 to slightly move to allow a match to be fed in the groove 17 of the roller 16, which will be rotated by the movement of the cog-rack, communicating movement to the segmental cog, 90 which will deliver the match. The rubber band 22 will serve to return the parts to their normal position, and the mechanism will then be in position for the next operation.

The many advantages obtained by the use 95 of my improved match-box will be readily apparent from the foregoing description, taken in connection with the accompanying drawings.

It will be noted that various changes may 100

be made in the details of construction without departing from the general spirit of my invention.

Having fully described my invention, what
5 I claim as new, and desire to secure by Letters Patent, is—

10 1. In a match-box, a receptacle having inwardly-extending walls therein, an agitator mounted within said receptacle, a roller having a groove therein located within the receptacle, and means to operate the roller and agitator simultaneously.

2. In a match-box, the combination of a base, a match-receptacle mounted thereon, an
15 agitator secured in said receptacle, inclined walls formed in said receptacle having a space

therebetween, a roller having a groove formed therein secured in said receptacle, a segmental cog-wheel, a spring-pressed lever connected with said agitator, said lever bearing 20 against said segmental cog-wheel, a cog-rack, an operating-lever connected to said rack, and means whereby said mechanism is returned to its normal position, all parts being arranged and operating substantially as de- 25 scribed.

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

GUSTAVE GREENLAND.

Witnesses:

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