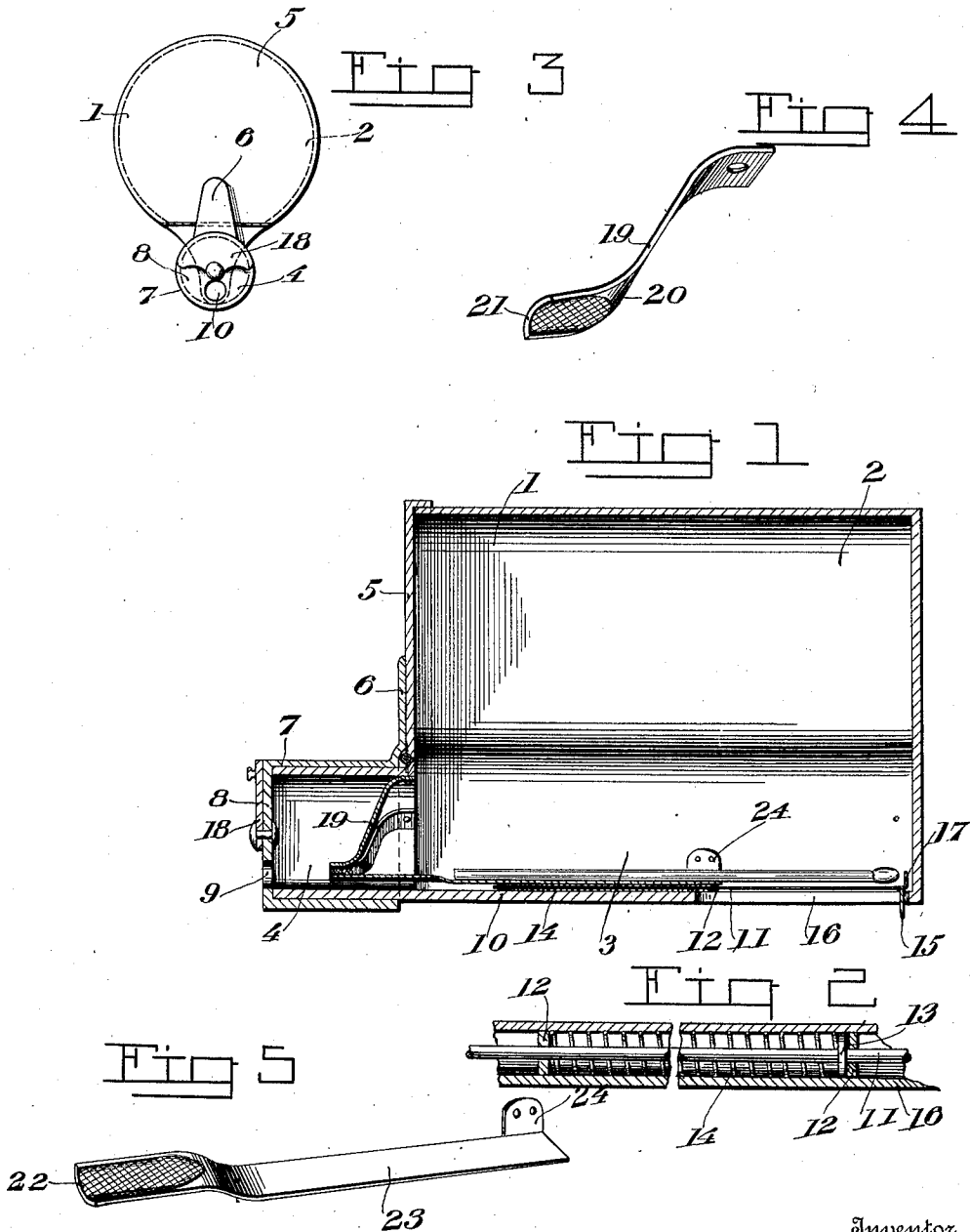


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MATCH SAFE.  
APPLICATION FILED JAN. 10, 1911.

1,003,357.

Patented Sept. 12, 1911.



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## MATCH-SAFE.

1,003,357.

Specification of Letters Patent.

Patented Sept. 12, 1911.

Application filed January 10, 1911. Serial No. 601,797.

*To all whom it may concern:*

Be it known that I, ARTHUR D. HALLETT, a citizen of the United States of America, residing at Vancouver, in the Province of British Columbia, Dominion of Canada, have invented new and useful Improvements in Match-Safes, of which the following is a specification.

This invention relates to match safes and particularly to one of the single delivery type wherein means are provided to permit the extraction of a single match, the object of the invention being to provide improved ejecting or extracting means and to provide igniting mechanism disposed directly in the path of the head of the match so as to ignite the same when the match is withdrawn, the said igniting mechanism being arranged normally suitably remote from the matches so as to prevent them from being ignited accidentally on the delivery of a match.

In the drawing, forming a portion of this specification and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a longitudinal section through the match safe. Fig. 2 is a longitudinal section through a portion of the bottom of the safe showing the ejecting member. Fig. 3 is a front end view of the safe. Fig. 4 is a perspective view of one of the spring igniting elements. Fig. 5 is a perspective view of the match support and igniting member.

The receptacle 1 which forms a part of the safe is constructed to provide an upper chamber 2 which is substantially of cylindrical form and a lower reduced portion 3 which is designed for the normal reception of a single match. At the front, the safe is provided with a substantially cylindrical portion 4 which is arranged in direct communication with the lower interior portion of the safe for a purpose to be hereinafter described. The safe is provided with a hingedly mounted portion 5 which is normally held in a closed position by the finger 6 on the revolubly mounted sleeve 7. The sleeve 7 embraces the cylindrical portion 4 of the safe, and as shown, it is provided at its outer end with a head 8 which closes the outer end of the said portion 4. The said head 8 has formed therein a discharge passage 9 which is disposed immediately on a line with the bottom 10 of the safe.

A match ejecting device is located in the lower reduced portion of the safe and it

preferably comprises a rod 11 which is slidable longitudinally in guides 12 which extend upwardly from the bottom 10. A shoulder 13 is formed on the rod, and as illustrated, one end of a helical extensile spring 14 bears against the stop to normally hold the rod at one limit of its movement. The opposite end of the spring 14 bears against one of the guides 12. The rod 11 is provided with a manipulating finger 15 which extends downwardly between the walls of an elongated slot 16 in the bottom 10. The slot 16 extends longitudinally of the bottom and its construction is such that will permit the rod to move longitudinally on the bottom 10. The rod 11 is provided with an ejecting finger 17 which extends upwardly into the safe so as to freely move between the side walls of the lower portion 3 of the safe, being positioned to engage directly behind the headed portion of the match, as shown in Fig. 1 of the drawing. The sleeve 7 is provided with a pivoted closure 18 which may be adjusted to close the discharge opening in the head of the sleeve so as to prevent the entrance of moisture in the safe.

The match igniting mechanism embodies a group of spring arms 19 which are secured in any suitable well known manner to the walls of the cylindrical portion 4. The arms are provided with free spring extremities 20 which are formed to provide longitudinal concavities 21 whose surfaces are serrated and disposed immediately above a similar serrated concavity 22 in a spring arm 23. The inner end of the arm is provided with an attaching ear 24 which is secured in any suitable well known manner to the match safe.

From the construction described it will be seen that the lowermost match in the safe will be seated on the spring member 23 and disposed in the path of movement of the ejecting finger 17 so that on movement of the ejecting finger in an outward direction the match will be forced between the spring members of the igniting mechanism. The rod 11 can be sufficiently actuated so as to cause the outer portion of the match to protrude from the opening 9. The match can then be extracted and on such operation the headed portion thereof will be drawn across the serrated surfaces hereinbefore described and ignited. When it is desired to fill the safe with matches, the sleeve 7 can

be rotated so as to disengage the finger 6 thereof from the closure 5. The closure can then be opened and the required quantity of matches can be readily inserted.

5 I claim:—

A match safe comprising a member having a cylindrical discharge portion, a sleeve closing one end of the said discharge portion, a hinged cover on the safe, means on 10 the sleeve for engaging the cover to hold the same in a closed position, the said sleeve having an opening therein, a spring member extending longitudinally of the safe adjacent to the bottom thereof and having a forward serrated portion disposed in line with 15

the opening in the sleeve, igniting devices located in the cylindrical portion of the safe and having free spring portions disposed above the serrated portion of the said spring member, and a match ejector for singly 20 moving the matches on the spring member and in the direction of the igniting devices and toward the opening in the sleeve.

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

ARTHUR D. HALLETT. [L. S.]

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."