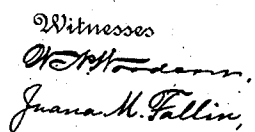


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UNITED STATES PATENT OFFICE.

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MATCH-STRIKING CABINET.

976,612.

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To all whom it may concern:

Be it known that I, COVERT R. SMITH, a citizen of the United States, residing at Freeport, in the county of Harrison and State of Ohio, have invented certain new and useful Improvements in Match-Striking Cabinets, of which the following is a specification.

This invention comprehends certain new and useful improvements in match dispensing safes or holders, and the invention has for its primary object, a simple, durable, and efficient construction of this character, which will, when operated eject one match at a time, and at the same time strike the match so that it will be lighted when presented at the discharge end of the cabinet.

With this and other objects in view as will more fully appear as the description proceeds, the invention consists in certain constructions and arrangements of the parts that I shall hereinafter fully describe and claim.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawings in which:

Figure 1 is a longitudinal sectional view of one form of my improved match striking cabinet; Fig. 2 is a horizontal section on the line 2—2 of Fig. 1; Fig. 3 is a detail perspective view of the picker arm employed; Fig. 4 is a longitudinal section of a modification of the invention; and, Fig. 5 is a transverse sectional view on the line 5—5 of Fig. 4.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawings by the same reference characters.

Referring to the drawings, and now particularly to that embodiment of the invention which is illustrated in Fig. 1 the numeral 1 designates a case or cabinet which may be of any desired size and design, and constructed of any desired material or materials, the case being preferably provided at its top with a lid 2 which may be opened to insert the matches within the magazine compartment 3. The front of this compartment 3 is formed by a substantially vertically disposed and transversely extending partition 4 which terminates at its lower end short of the bottom of the compartment, the bottom of the compartment being defined by a forwardly and downwardly extending plate 5 which is hinged at its rear end as indicated

at 6 and which is slightly movable, the purpose of this plate being to jar the matches down toward the front lower end of the compartment 3, when the device is operated. The partition 4 divides the magazine 3 or storage chamber from a front compartment 7, the side walls of which are provided with curved guides 8. Mounted in the compartment 7, between the guides 8 is a picker arm 9, the same being mounted to turn upon a transversely extending shaft 10 and being provided with gear teeth 11 arranged in the form of a segment as shown. The teeth 11 mesh with rack teeth 12 formed on the upper face of a forwardly and backwardly sliding ejecting plate 13 which is mounted in suitable guides in the cabinet 1 in the bottom thereof and the lower end of which is adapted to close the bottom discharge opening of the magazine chamber 3. That portion of the plate 13 which closes the bottom discharge opening of the magazine chamber 3 moves forward and will carry the last match up against the curved guides 8, as the ejecting plate is slid forwardly, just at the instant, of the return of the picker arm 9. Obviously the upper surface of this portion of the plate 13 may be corrugated or otherwise arranged to operate positively on the matches, in bringing them up to the picker arm guides.

14 designates a contractile spring which is secured at one end to the downwardly extending hooked rear end 15 of the ejecting plate 13, the forward end of the spring being connected in any desired way and in a stationary manner to the casing or cabinet 1 underneath the plate. Projecting forwardly from the plate is an actuating handle 16 the same being preferably provided at its front end with a finger piece 17.

18 and 19 designate springs which are secured to the front of the cabinet 1 contiguous to the plate 13 and at opposite sides of a discharge opening 20 which is in the form of a recess, as clearly illustrated in Fig. 2. The spring 18 having the head of the match rubbed along its milled or roughened surface so as to strike the match and present it lighted at the opening 20, while at the same time the picker arm 9 is reversed in its movement and caused to engage another match for a subsequent ejecting operation. It is to be understood that the invention is not limited to any particular construction of match scratching element, or to any par-

tical construction and arrangement of match scratching elements with the springs or match holding devices 18 and 19. If desired, the match may be grasped at the opening 20 and removed entirely from the match striking cabinet, or it may remain in partially ejected position owing to the fact that the ejecting plate 13 is formed at one side of its front edge with a beveled portion 23 terminating short of the free end of the spring 19, the latter thereby holding the handle end of the match, while the head end of the match is pushed entirely out from the front of the cabinet. This is clearly illustrated in Fig. 2.

In that embodiment of the invention which is illustrated in Fig. 3 1^a designates the cabinet, 3^a the magazine chamber thereof, 7^a the compartment, the side walls of which are formed with the curved guides 8^a having outwardly beveled front lower end portions 22^a, and 13^a the match ejecting plate which is formed with rack teeth 12^a engaging the teeth 11^a formed on the match picking arm 9^a and in this embodiment of the invention the parts just named are substantially like the parts above described that bear corresponding numerals without the coefficients as are also the springs 18^a and 19^a, the main difference between this form of invention and that first described residing in the actuating part of the mechanism which in the embodiment of the invention now being described consists of a bell crank lever 16^a the handle end of which is formed with a finger piece 17^a and which is provided with a depending arm 24 which works in an opening formed in the ejecting plate 13^a. As the operation of this form of the invention is substantially like the operation of the embodiment as described, further and detail description of the operation is deemed unnecessary. It is of course to be understood that the device may be made of any desired width so as to be applicable for use with full length or smaller matches.

Having thus described the invention, what is claimed as new is:

1. A match cabinet embodying a storage compartment provided with a discharge opening, a match picker mounted in said cabinet, and an ejecting plate slidably mounted in the cabinet below the discharge opening and operatively connected to the picker arm to turn the same upon the sliding movement of the plate.

2. A match striking cabinet, embodying a storage magazine provided with a discharge opening, an ejecting plate adapted to slide in the cabinet underneath the discharge opening, a picker arm operatively connected to the ejecting plate, and springs coacting with the plate and underneath which the match is passed by the plate, the plate being formed with a beveled edge underneath one

of said springs as and for the purpose set forth.

3. A match striking cabinet, embodying a storage magazine, an ejecting plate operating in the cabinet and adapted to receive the matches from said magazine, a match picker mounted for a back and forth turning movement in the cabinet and operatively connected to the ejecting plate, and guides mounted within the cabinet at opposite sides of said picker, said guides being formed with forwardly deflected front ends, for the purpose specified.

4. A match striking cabinet embodying a storage magazine, a match ejecting plate operating underneath the storage magazine and spring pressed in one direction, means for moving the plate in the opposite direction, the plate being formed with a rack, a match picker mounted for a back and forth movement in the cabinet and formed with teeth meshing with the teeth of the rack, and a match striking element coacting with the ejecting plate at the front of the cabinet.

5. A match striking cabinet embodying a storage magazine, an ejecting plate mounted for a back and forth sliding movement in the cabinet underneath the magazine, said plate being formed with a rack, a spring tending to move said plate forwardly in the cabinet, means for moving said plate rearwardly in the cabinet, a match picker mounted for a back and forth turning movement in the cabinet and formed with teeth meshing with the teeth of the rack, the cabinet being provided at opposite sides of the match picker with curved guides the front ends of which are forwardly deflected, for the purpose specified, and a match striking element coacting with the ejecting plate at the front of the cabinet.

6. A match striking cabinet embodying a storage compartment provided with a bottom discharge opening, a rotatable match picker mounted in said cabinet, an ejecting plate slidably mounted in the cabinet below the discharge opening and operatively connected to the picker arm to turn the same upon the sliding movement of the ejecting plate, and a match striker coacting with the ejecting plate to light the match as it is drawn out of the cabinet.

7. A match cabinet, embodying a storage magazine, an ejecting plate operating in the cabinet and adapted to receive the matches from said magazine, a match picker mounted for a back and forth turning movement in the cabinet and operatively connected to the ejecting plate and guides mounted within the cabinet at opposite sides of said picker, for the purpose specified.

8. A match striking cabinet embodying a storage magazine, a match ejecting plate operating underneath the storage magazine, the plate being formed with a rack, and a

match picker mounted for a back and forth movement in the cabinet and formed with teeth meshing with the teeth of the rack.

5 9. A match striking cabinet, embodying a storage magazine provided with a discharge opening, an ejecting plate mounted to slide in the cabinet underneath the discharge opening, a picker arm, operatively connected to the ejecting plate and springs coacting
10 with the plate underneath which the match

is passed by the plate, one of said springs being formed with a roughened surface, for the purpose specified.

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

COVERT R. SMITH. [L. s.]

Witnesses:

R. W. GREEN,
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