No. 683,028. Patented Sept. 24, 1901.

S. F. ESTELL.

MATCH SAFE.

(Application filed Feb. 8, 1901.)

(No Model.)

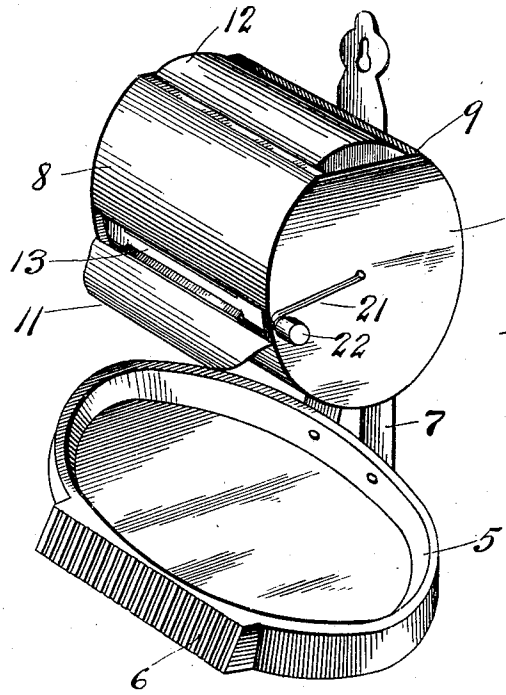

Fig. 1.

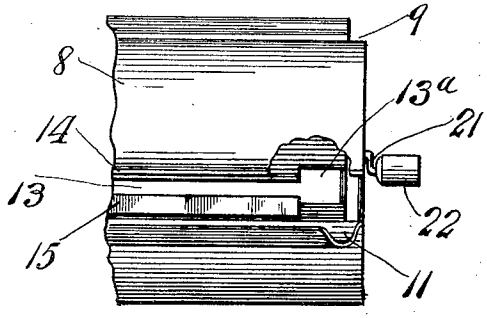

Fig. 2.

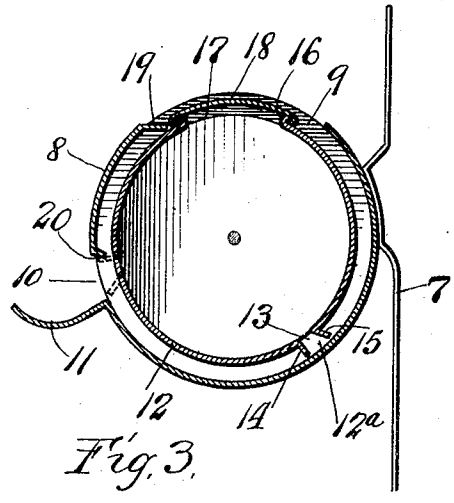

Fig. 3.

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UNITED STATES PATENT OFFICE.

SAMUEL F. ESTELL, OF CHICAGO, ILLINOIS.

MATCH-SAFE.

SPECIFICATION forming part of Letters Patent No. 683,028, dated September 24, 1901.

Application filed February 8, 1901. Serial No. 46,536. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL F. ESTELL, a citizen of the United States, and a resident of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Match-Safes, of which the following is a specification and which are illustrated in the accompanying drawings, forming a part thereof.

My invention has reference to certain new and useful improvements in match-safes, and has for its object to provide a simple and effectual magazine match-receptacle adapted to deliver but a single match at each operation.

The invention consists of the mechanism hereinafter fully described and which is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a match-safe constructed in accordance with my invention. Fig. 2 is a detail front elevation of the same, a part of the outer casing being broken away to show the enlargements of the match-delivering mouth or aperture; and Fig. 3 is a central transverse section of the match magazine and casing, the lips of the former being shown in dotted lines as registering with the mouth of the casing.

The match-safe has a base 5, made in the shape of a tray, providing a receptacle for burned match ends, and having at one edge, as 6, a serrated scratcher or igniting-surface. Fixed to the base is a vertical standard or hanger bracket 7, near the upper end of which is secured a cylindrical casing 8, having closed ends 8^a and an opening 9 in the top thereof. A slot or aperture 10 is provided in the front side of the casing, and secured under the same and adapted to receive matches passing therethrough is a curved shelf or receiver 11.

Journaled within the casing 8, concentrically therewith, is a preferably cylindrical match-magazine 12, provided with a slot or aperture 13, at each edge of which is an outwardly-extending lip or flange 14 15 of less length than the slot 13, which terminates at each end in an enlargement 13^a beyond the ends of the lips 14 15. The lips 14 15 form, with the wall of the casing, a pocket 12^a of such size that but one match shall be seated therein at a time. At a point approximately diametrically opposite to the slot 13 is an opening 17 in the magazine 12, closed by a slide-cover 18, preferably constructed as shown—that is to say, the material of which the magazine 12 is made at each side of the opening 17 is bent outwardly and backwardly upon itself to form the flanges 16, which are engaged by the downwardly and inwardly extending flanges of the sliding cover. By this construction the cover is caused to extend beyond the periphery of the magazine and engages a stop or flange 19, bent into the path thereof when the magazine is revolved in one direction, and another stop or flange 20, bent inwardly from the front wall of the casing and in the path of the lip 14, serves to limit the movement of the magazine when revolved in the opposite direction. It will be seen, therefore, that the magazine has an oscillating or rocking movement on its journals, the stops or limiting flanges being so disposed with relation to the magazine that when the mouth or slot 13 registers with the slot 10 the lip 14 strikes the stop 20, as shown in dotted lines in Fig. 3, and the magazine is held against further movement in the direction of the stop. The lip 15 is bent tangentially to the magazine, so that when the slot or mouth 13 registers with the slot 10 the lip forms an inclined shelf down which the match slides or rolls to the receiver 11. A crank 21, having a weighted knob or handle 22, provides means for oscillating the magazine, the weight being adapted to keep the same normally in such position that the slot 13 will be out of register with the aperture or slot 10 and in the bottom of the casing 8. The enlargements 13^a of the aperture or slot 13 are provided in order to permit of the ready passage of the head of the match when being delivered to the receiver 11, such part of the match being larger than the stem thereof.

The match-safe may rest on a table or other convenient place, supported by its base 5, or be hung from the wall, the standard carrying the match-receptacle having an opening for a nail or hook.

In operation the magazine 12, containing a supply of matches, one of them resting in the pocket formed between the lips 14 15 and the wall of the casing, is revolved on its journals by means of the crank 21 until the lip 14

strikes the flange or stop 20, at which time the mouth or slot 13 registers with the slot or aperture 10, whereupon the match carried by the lip 15 will fall through the slot 10 and onto the receiver 11. The crank is then released, and the weight 22 carries the magazine back to its normal position, the mouth or slot 13 and lips 14 and 15 being directly under the axis of the magazine. At this time or while the magazine is returning to its normal position a match will drop into the pocket formed by the lips and the wall of the casing and be ready to be delivered to the receiver 11 as soon as the magazine is again oscillated.

I claim as my invention—

1. In a match-safe, in combination, a cylindrical casing having a match-outlet, an oscillating receptacle journaled in the casing and provided with a slot having lips adapted to register with the match-outlet, and means for limiting the oscillatory movement of the receptacle.

2. In a match-safe, in combination, a cylindrical casing having a slot, an oscillating receptacle journaled in the casing provided with a slot and having outwardly-extending lips adapted to register with the slot of the casing, and a flange provided at the upper edge of the slot in the casing in the path of one of the lips for limiting the movement of the receptacle.

3. In a match-safe, in combination, a cylindrical casing having a covered opening and a slot, an oscillating receptacle journaled in the casing and provided with a slot having outwardly-extending lips adapted to register with the slot of the casing, a flange formed at the upper edge of the slot of the casing in the path of one of the lips for limiting the movement of the magazine in one direction, an inwardly-extending flange adapted to abut against the cover of the receptacle to limit the movement of the magazine in the opposite direction, and means for moving the receptacle so that the lips thereof will be normally at the bottom of the casing.

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