Killin & Yates,

Match Box.

No. 67,317. Patented July 30. 1867.

Fig. 1.

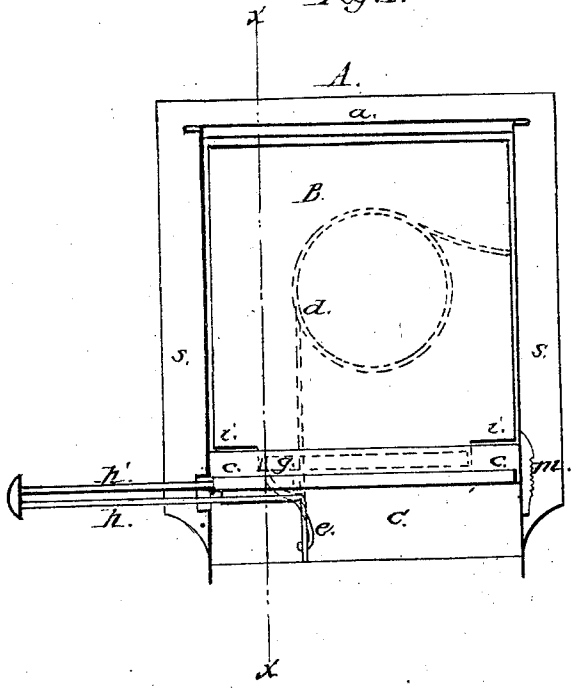
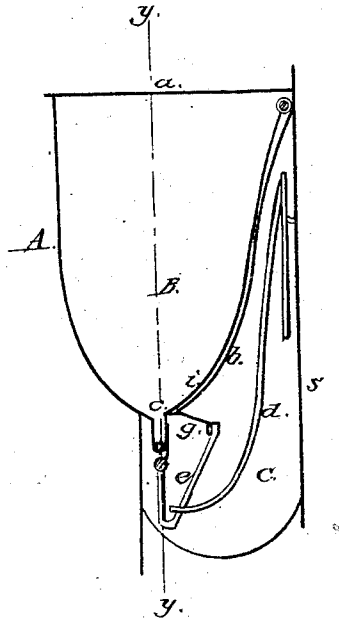


Fig. 2.



Witnesses:
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P KILLIN AND H. C. YATES, OF DECATUR, ILLINOIS.

Letters Patent No. 67,317, *dated July* 30, 1867.

MATCH-SAFE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that we, P. KILLIN and H. C. YATES, of Decatur, in the county of Macon, and State of Illinois, have invented a new and useful Improvement in Match-Safe; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical section of our improved match-safe taken in the line *x x*, fig. 2.

Figure 2, a vertical section taken in the line *y y*, fig. 1.

Similar letters of reference indicate like parts.

The nature of this invention consists in forming a safe for holding lucifer matches of ordinary round or square forms, in which is an arrangement for discharging the matches from the bottom, one at a time, and lighting the match as it emerges from the safe or box.

A represents a tin or other suitable sheet-metal box, having one flat side *s* to lie close against a wall or mantel-piece, when hung up or laid down, and provided with a sliding or hinged cover, *a*. The interior of the box is divided into two parts, B C, by a partition, *b*, fig. 2, one of which parts, B, holds the matches, and is made oval-shaped and tapering from the top to the bottom, which terminates with a narrow space or long neck, *c*, made only large enough to receive one match at a time, in which neck the matches are guided straight and laid lengthwise, as shown in fig. 1. In the part C is arranged a wire spring, *d*. The spring *d* touches and operates on a wire loop, *e*, one end of which moves in a groove in a metal strip, *g*, to slide it through the lower part of the partition *b*, and moves a sheet of metal or feeder *i* that is pivoted at the top of the box, and lies close to the partition in the part B, while the other end of the loop *e* is attached to the end of a straight piece of wire, *h*, which slides in and out of the bottom of the safe, and carries with it in its movement another straight piece of wire, *h'*, that enters the neck *c*, on one side of the safe, to push a match through a hole on the opposite side. The wires *h h'* pass through guides, and when they are pushed into the box one of them, *h*, presses the loop *e* upon the spring *d* in such a manner that it moves the metal strip *g* inward to lift the feeder *i*, and thus loosen the matches in the bottom of the safe, while the other wire *h'* pushes upon the end of the match in the neck *c* and forces it out at the other side of the safe. As soon as this has been done the spring *d* flies back and pushes out the wires *h h'*, and the feeder *i* then returns to its old place close against the side of the partition *b*, to allow another match to fall into the neck *c*. On the outside of the box, on both sides of the hole through which the matches are pushed, is fastened a serrated spring-jaw, *m*, that binds upon the match as it passes sufficiently to percuss the fulminating composition on the end and ignite the match.

Having described our invention, we claim as new, and desire to secure by Letters Patent—

The match-safe, constructed as described, consisting of the box A, divided into two parts B C by the partition *b*, necks *c*, curved wire spring *d*, loop *e*, grooved strip *g*, pivoted feeder *i*, sliding wires *h h'*, serrated spring-jaw *m*, plate *s*, and cover *a*, all arranged as described for the purpose specified.

P. KILLIN,
H. C. YATES.

Witnesses:

WM. E. NELSON,
C. H. FULLER, } as to YATES.

GEO. D. WINEHILL,
C. S. UPSON, } as to KILLIN.