A. S. MACK.

MATCH BOX.

APPLICATION FILED MAY 31, 1912.

1,068,791.

Patented July 29, 1913.

2 SHEETS—SHEET 1.

Fig. 2.

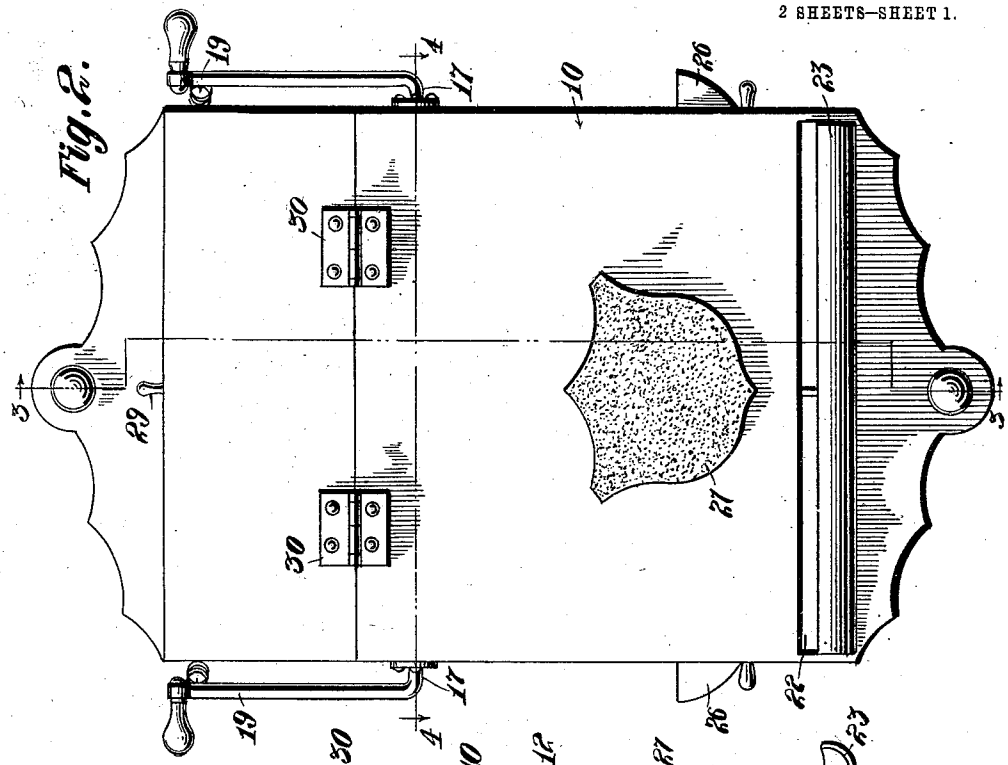
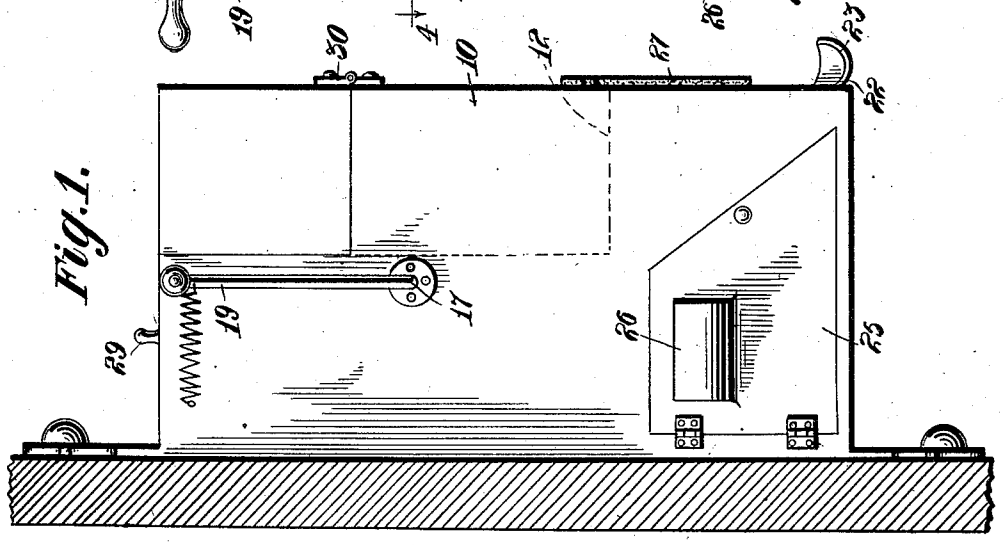


Fig. 1.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 4.

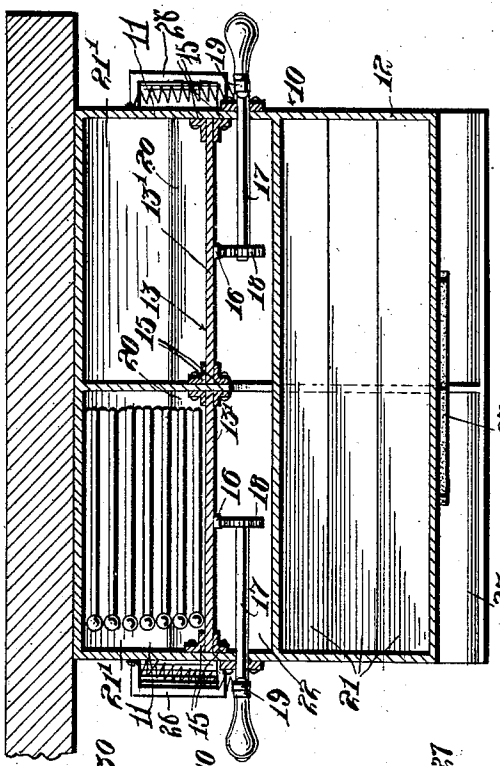
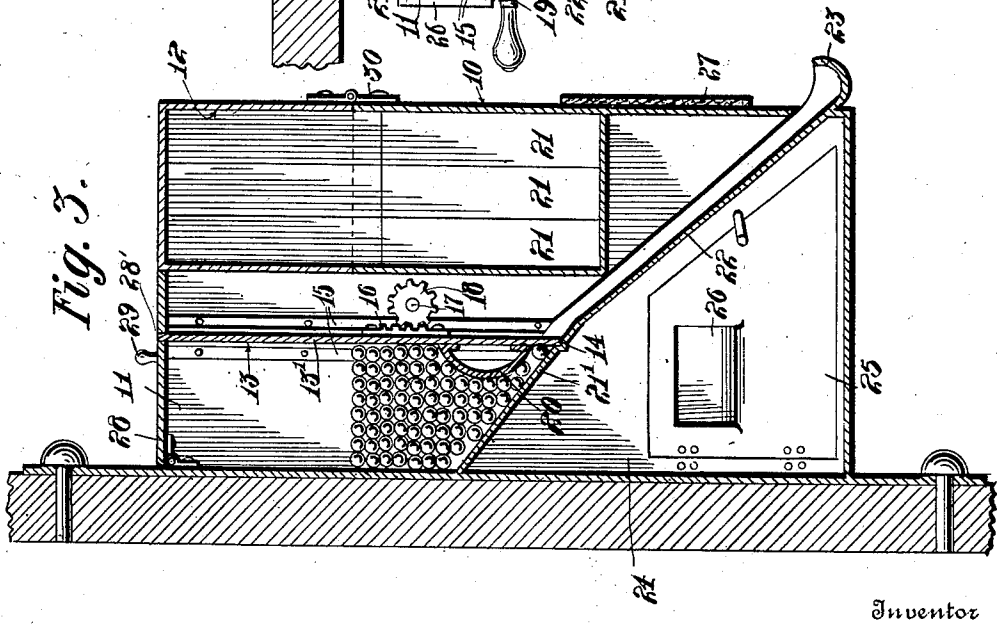


Fig. 5.



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UNITED STATES PATENT OFFICE.

ALEXANDER S. MACK, OF CHICAGO, ILLINOIS.

MATCH-BOX.

1,068,791. Specification of Letters Patent. Patented July 29, 1913.

Application filed May 31, 1912. Serial No. 700,792.

To all whom it may concern:

Be it known that I, ALEXANDER S. MACK, a citizen of the United States, residing at Chicago, in the county of Cook, State of Illinois, have invented certain new and useful Improvements in Match-Boxes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in match boxes, and has particular reference to a match box in which the matches are set out in small lots of two or three.

The principal object of the invention is to provide a simple device of this character in which provision is made for holding matches to be delivered, and for carrying boxes of matches to be used in filling the compartments.

Another object resides in the peculiar construction and arrangement of the means for releasing the matches.

These and other objects will be apparent from the following description and with particular reference to the accompanying drawings.

In the drawings: Figure 1 is a side elevation of a match box made in accordance with my invention, Fig. 2 is a front elevation, Fig. 3 is a vertical longitudinal section on the line 3—3 of Fig. 2, and Fig. 4 is a horizontal sectional view on the line 4—4 of Fig. 2.

Referring particularly to the drawings, 10 represents a casing which includes rear compartments 11 and a front compartment 12, separated by a partition 13, which comprises the sliding doors 13′. The rear compartment 11 is adapted to contain the supply of matches, which are to be fed out through the elongated openings 14 beneath the lower ends of the doors 13′, when the said doors are raised. Each of the doors 13′ is mounted in slide rails 15 at either side of the casing 10, and on the front faces of said doors 13′ are the vertically arranged rack plate 16, and suitably journaled in the casing are the transverse shafts 17 carrying thereon a pinion 18 for engagement with one of the racks. On the outer end of each shaft is mounted a crank 19, spring held normally in vertical position, and adapted to be moved downwardly and forwardly to cause the pinion to operate on the rack to raise the door.

In each of the magazine compartments 11 and near the forward portion thereof is mounted a transversely extending and inwardly bowed guide plate 20, which restricts the passage of the matches from the compartment to a limited number.

The forward compartment 12 is particularly adapted for storing boxes of matches from which the magazines may be filled when the same become empty, said boxes of matches being indicated by the reference numeral 21.

The bottom of each compartment 11 is downwardly and forwardly inclined as indicated at 21′, and has an extension 22, terminating in the forward part of the casing by an upturned lip 23 to hold the matches that have been delivered from the magazine, so that they may be readily picked up by any one desiring the same. Below the inclined bottom 21′ is a compartment 24 having an access opening in the side closed by the door 25, said door having a slot 26 formed therein, through which the burnt matches may be passed to prevent them being thrown on the floor or otherwise disposed of.

It will of course be understood that the magazine 11 is duplicated on the other side of the machine, so that when one magazine is empty the other may be put into use.

On the front face of the casing is mounted a match scratching plate 27 and over the rear portion of the casing is a lid 28 secured in place by suitable fastenings as indicated at 29, said lid having the slot 28′ to permit the doors 13′ to slide upwardly therethrough. The upper front part of the casing is hinged as at 30, to provide means of access to the compartment containing the supply of boxes of matches.

The front wall of the casing extends downwardly within the lip 23, and suitably spaced therefrom so that the matches which escape from the magazines will run down the inclined bottom or extension 22, and rest in the gutter formed by the said lip.

Upon moving one of the handles 19 forwardly, the pinion will engage the teeth of the rack 16 and raise the door 13′, which will uncover the opening 14 and permit a small number of matches to escape therefrom and run down the extension 22 and rest in

the gutter formed by the lip 23. The spring of the lever will retain the same in normal position when released, and move the partition down to the original position, which will close the opening 14 and prevent any further escape of matches.

What is claimed is:

1. A delivery match box, comprising a casing, a magazine compartment in the casing, a storage compartment in the casing, a sliding partition between the compartments, an inwardly projecting guide in the magazine compartment, forming an outlet opening, an inclined bottom in the magazine compartment, an inclined extension chute on the inclined bottom extending under the storage compartment, a match receiving trough on the outer end of said extension, a regulating guide wall projecting into the trough, and manually operated means for moving the partition.

2. In a delivery match box, a casing, a magazine compartment, a sliding partition in the magazine compartment, a match receiving trough mounted on the front of the casing, a rack on the partition, a shaft journaled in the casing, a pinion carried by the shaft and engaging the rack, and a lever on the shaft to raise and lower the partition.

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

ALEXANDER S. MACK.

Witnesses:
FRANK MACK,
JULIAN KWASIGROD.

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