

E. C. HAYMAKER.

MATCH BOX.

APPLICATION FILED APR. 23, 1909.

Patented Aug. 23, 1910.

2 SHEETS—SHEET 1.

968,351.

Fig. 1.

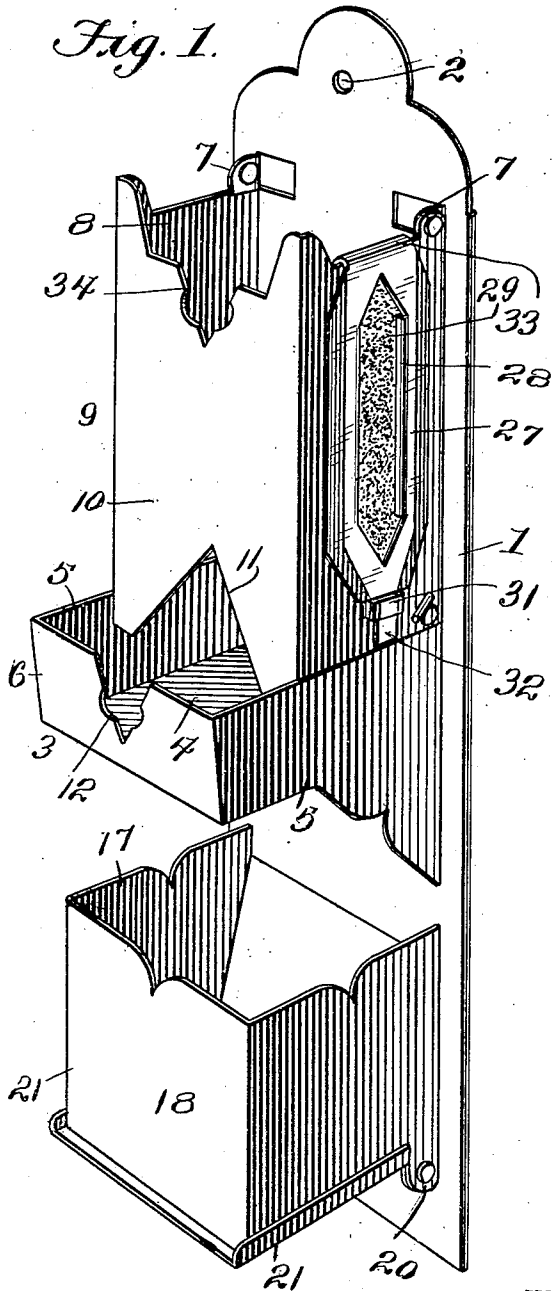
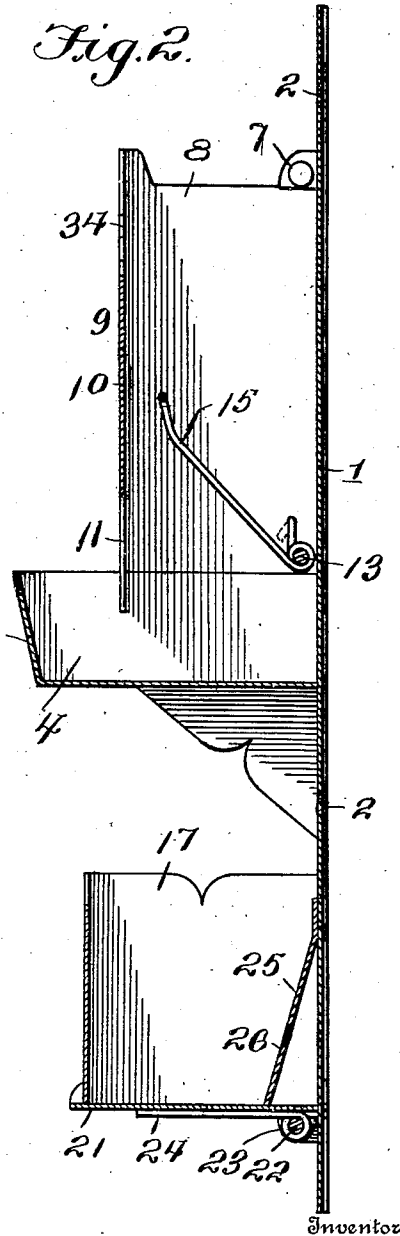


Fig. 2.



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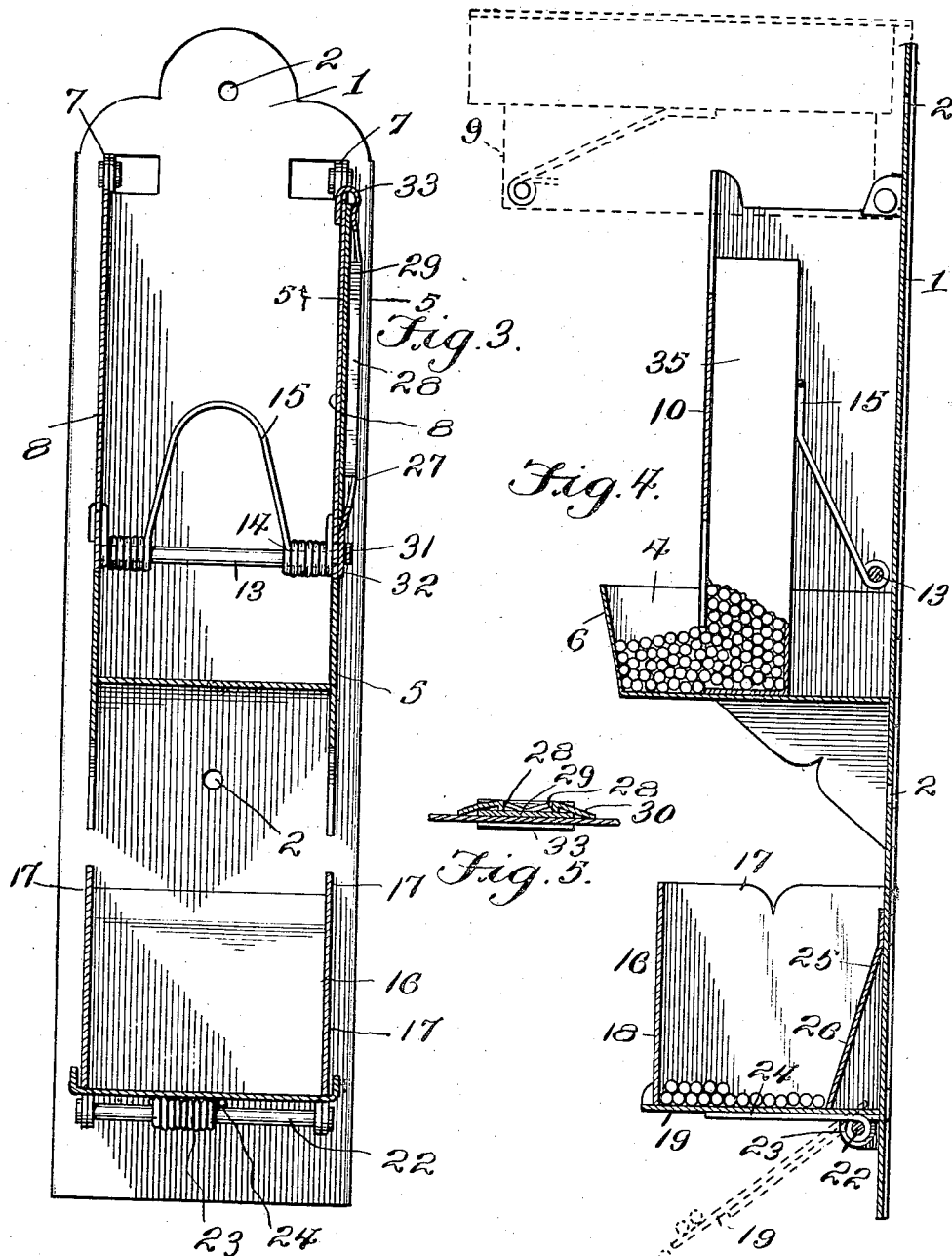
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Attorney

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UNITED STATES PATENT OFFICE.

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MATCH-BOX.

968,351.

Specification of Letters Patent. Patented Aug. 23, 1910.

Application filed April 23, 1909. Serial No. 491,768.

To all whom it may concern:

Be it known that I, EDWARD C. HAYMAKER, a citizen of the United States, residing at Youngstown, in the county of Mahoning and State of Ohio, have invented new and useful Improvements in Match-Boxes, of which the following is a specification.

This invention relates to match boxes, and has for an object to provide a device of this character consisting broadly of a trough, and means coöperating with the trough for receiving an ordinary box of matches and to arrange the latter so that the matches will be automatically fed into the trough.

A still further object of my invention is to provide a match box consisting of a main trough arranged to automatically receive a supply of matches from a receptacle above the trough, and to further provide a novel form of receptacle beneath the trough for receiving the burned matches.

Other objects and advantages will be apparent as the nature of the invention is better set forth, and it will be understood that changes within the scope of the claims may be resorted to without departing from the spirit of the invention.

In the drawings, forming a portion of this specification and in which like numerals of reference indicate similar parts in the several views:—Figure 1 is a perspective view of the match box. Fig. 2 is a vertical longitudinal section through the box. Fig. 3 is a detail front elevation of the box with parts in section to more clearly illustrate the invention. Fig. 4 is a view similar to Fig. 2 showing the device provided with a match box of ordinary construction arranged to automatically deliver a supply of matches to the trough. Fig. 5 is a detail horizontal section taken on the line 5—5 of Fig. 3.

Referring now more particularly to the drawings, there is shown a base member or plate 1 provided at suitable points with passages 2 for receiving suitable fastening devices whereby the device may be supported upon a wall or the like. Midway between the ends, the base member or plate 1 is provided with a horizontally extending trough 3 provided with a bottom 4, spaced side walls 5 and a front wall 6. The trough herein shown is preferably soldered to the base plate or member 1 but can be secured thereto in any suitable manner as is obvious. The base plate or member 1 has stamped there-

from a pair of outwardly directed ears 7 to which the side walls 8 of the hollow member 9 are hingedly connected. The walls 8 of the member 9 are connected by an outer wall 10 which has its lower extremity extending partly into the trough 3 and the lower portion of this wall is provided with a substantially V-shaped recess 11 for a purpose to be hereinafter more fully described. The front wall 6 of the trough is also provided with a recess 12 which is thus located immediately in front of the recess 11 just described. As shown in Fig. 3 of the drawings, the lower edges of the side walls 8 of the hollow member 9 are adapted to rest upon the upper edges of the side walls 5 of the trough 3. The hollow member 9 is provided with a fixed shaft 13 around which is coiled a spring 14 having its terminal end portions fixed to the side walls 8 of the member 9, and as illustrated the said spring is provided with an intermediate substantially U-shaped portion 15 which is free for movement toward or away from the front wall 10 of the member 9.

A receptacle 16 is carried by the base plate or member 1 and is disposed immediately beneath the trough 3 but is suitably spaced therefrom. The receptacle 16 preferably consists of parallel spaced side walls 17, a front wall 18 and a bottom 19 hingedly connected to depending ear portions 20 carried by the side walls 17. The bottom 19 has its outer end extended beyond the front wall 18 of the receptacle 16 and the said bottom is provided with spaced side flanges 21 adapted to overlie portions of the side walls of the receptacle when the bottom is in its closed position. The pivot shaft 22 upon which the bottom 19 is mounted has coiled thereabout a spring 23 having an arm 24 engaged with the bottom 19 in such manner that it will normally be held in its closed position. The base plate or member 1 has secured thereto a deflector 25 having a downwardly and outwardly directed portion 26 which extends toward the front wall of the receptacle 16 and is disposed between the side walls of the said receptacle.

A match scratcher 27 is provided for my improved box and consists of a blank of metal which is stamped to form spaced flanges 28 which form in conjunction with each other an elongated guide slot 29. From the flanges 28 the blank of material forming the scratcher is bent outwardly to form por-

tions 30 engaged with one of the side walls of the member 9. This side wall of the receptacle is provided with a socket 31 which receives a depending tongue 32 of the striker. At the upper end the blank of material forming the striker is bent to form a hook 33 adapted to be engaged with one of the side walls of the member 9 as will be understood. A strip of abrasive paper 33 is employed to complete the striker and is confined between one of the side walls of the member 9 and the flanges 28 so that the rough face of the material will be exposed in such manner that a match to be struck can be engaged therewith. The front wall of the member 9 at its upper end is provided with a recess 34 for a purpose to be hereinafter more fully described.

In practice, or in other words when it is desired to use the box herein shown and described I raise the member 9 or swing it on its pivot or hinge so that it assumes approximately a horizontal position as shown in dotted lines in Fig. 4 of the drawings, after which I take an ordinary box of matches and remove the outer cover which leads the portion 35 shown in full lines in Fig. 4. After the portion 35 has been properly positioned within the member 9 with the open portion thereof disposed adjacent to the front wall of the said member the latter may be swung to the full line position in order that the matches will fall by their own gravity and will pass beneath the front wall of the member 9 and a quantity deposited in the trough 3 in such manner that they can be conveniently reached and grasped through the recess 12. After the matches have been utilized they can be thrown into the receptacle 16 and by providing the hingedly connected bottom 19 it may be moved into the dotted line position shown in Fig. 4 to permit the matches to be conveniently discharged into a waste receptacle.

While I have described the use of the present match box in connection with a match container or box of ordinary construction it is obvious that I need not rely particularly upon this mode of operation as any obvious means may be employed for

holding a quantity of matches so that they will be automatically fed to the trough 3. It is obvious, but it will be stated for the purpose of clearness that the portion of the ordinary match box, receptacle or container 35 is provided with an open front wall which is arranged to be partly closed by the front wall of the member 9.

I claim:—

1. A device of the class described comprising a base member, a trough extending outwardly from the base member, a hingedly connected match receptacle upon the base member, said receptacle having an open bottom portion which is disposed immediately above the bottom of the trough, and a spring mounted in the receptacle and exerting its tension against a match container in the said match receptacle to hold the open end of the match container against the front wall of the said receptacle.

2. A match box comprising a base member, a receptacle hingedly connected at its upper end to the said base member, the said receptacle having an open top and an open bottom, a trough extending forwardly from the base member and disposed immediately beneath the lower open end of the said receptacle, the said receptacle having its bottom spaced from the bottom of the trough and having its front wall spaced from the front wall of the trough, and a spring carried by the receptacle and exerting its tension toward the front wall of the said receptacle therein.

3. A match container having disposed therebeneath an outwardly extending receptacle, the said receptacle being adapted to contain used matches and provided with a downwardly and outwardly extending deflector, and a spring-pressed bottom normally closing the lower end of the said receptacle.

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

EDWARD C. HAYMAKER.

Witnesses:

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