No. 695,789. Patented Mar. 18, 1902.

W. H. BURDEN.

DEVICE FOR DELIVERING AND IGNITING MATCHES.

(Application filed May 16, 1901.)

(No Model.)

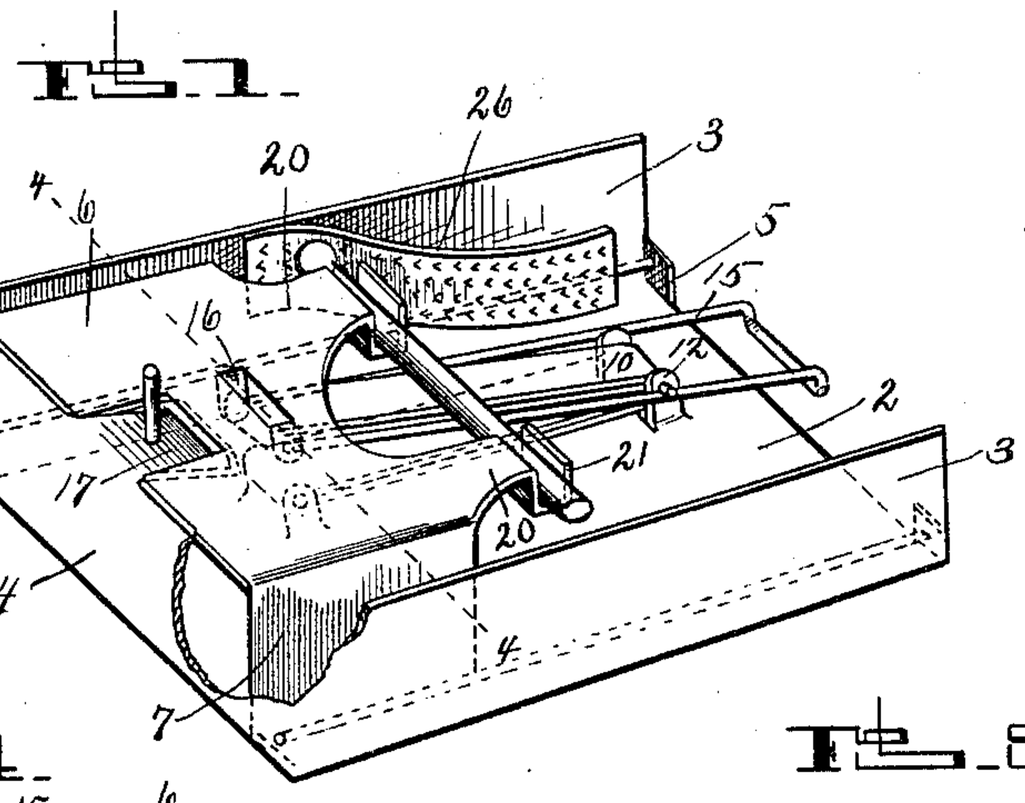


FIG. 1.

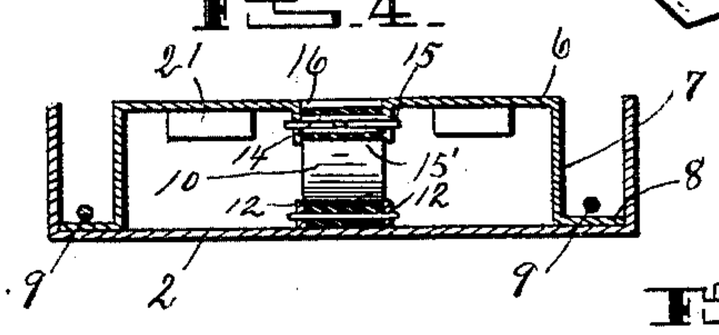


FIG. 4.

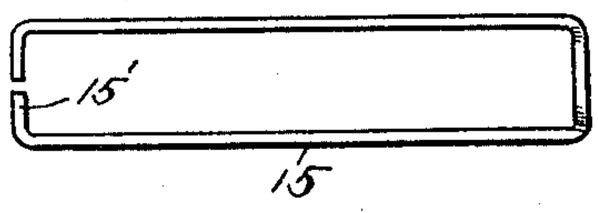
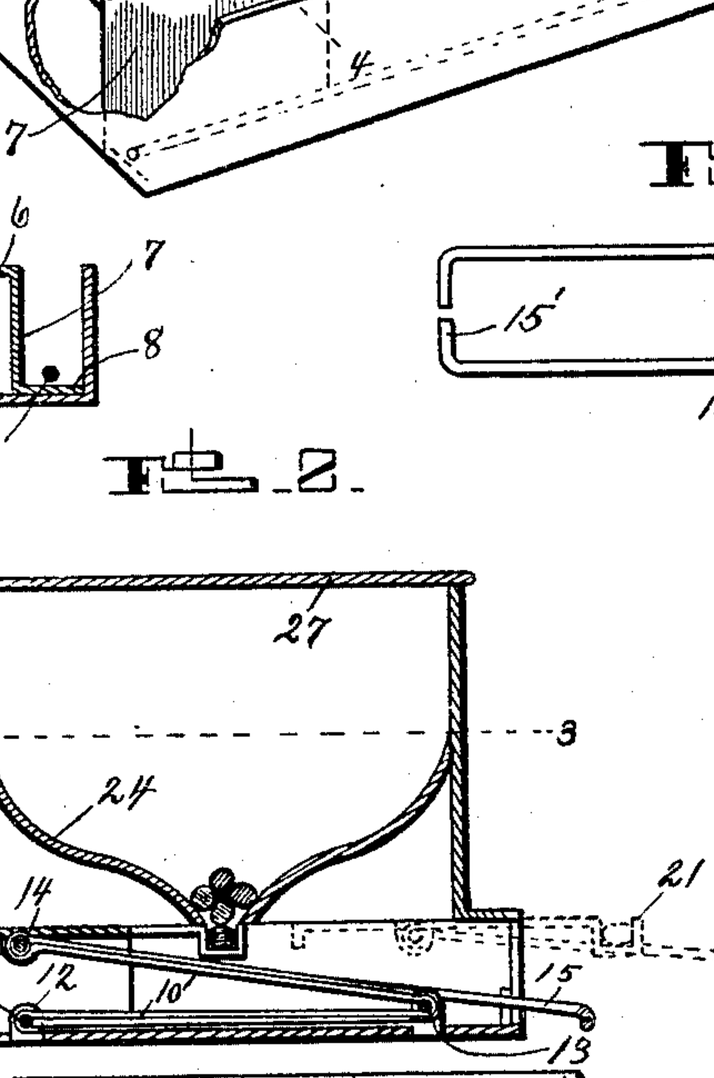


FIG. 5.

FIG. 2.

FIG. 3.



WITNESSES.

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DEVICE FOR DELIVERING AND IGNITING MATCHES.

SPECIFICATION forming part of Letters Patent No. 695,789, dated March 18, 1902.

Application filed May 16, 1901. Serial No. 60,503. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. BURDEN, a subject of the King of Great Britain, residing at Wilkinsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Devices for Delivering and Igniting Matches, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to a match receptacle or holder from which the matches are automatically delivered and ignited one at a time.

The invention consists in the novel structural features and combination of parts hereinafter fully described and claimed, and illustrated by the accompanying drawings, wherein—

Figure 1 is a perspective view of the lower portion of the holder, illustrating the delivering and igniting mechanism. Fig. 2 is a vertical sectional view with the delivering mechanism shown projected in dotted lines. Fig. 3 is a sectional plan view on line 3 3 of Fig. 2 with the delivering-slide projected. Fig. 4 is a vertical cross-sectional view on line 4 4 of Fig. 1. Fig. 5 is a detail view of the slide-pushing device.

In the present embodiment of the invention the holder consists of a base part which contains the delivering and igniting mechanism and a match-receptacle which removably fits thereover. The base portion consists of bottom 2, sides 3, and rear end 4 of box-like form and shaped from a single piece of metal. Turned up from the same blank are stops 5 at opposite sides of the front end of bottom 2.

6 represents the top portion of a sliding device arranged within the base and having the downturned portions 7 and the horizontal outwardly-projecting bottom portions or runners 8, which are adapted to slide on bottom 2 beneath confining-rods 9. If preferred, these rods may be omitted. For drawing the slide forward for the purpose of delivering a match a rubber band 10 is employed, which is secured at one end to pin 11, mounted in ears 12, struck up from bottom 2, and from hence the band extends forward around a similarly-arranged pin 13, near the forward end of bottom 2, and from pin 13 band 10 extends backward and upward around roller 14. This roller is mounted on the inturned ends 15′ of the forwardly-extending bail 15, which projects through ears 16, struck down from top 6. The slide is held retracted against the pull of band 10 by the depressible spring-latch 17, which is here shown extending forward from rear end 4 of base 2 and adapted to engage the downturned lip 18 on top 6. The latch is of such form as to automatically engage said lip when the slide is pushed back by means of bail 15, the latter being specially provided for this purpose. The latch may be depressed for replacing the slide by pressure on the push-pin 19, projecting upward from the latch.

At the forward end of top portion 6 of the slide are the corresponding projections 20, having their outer ends bent to form the alining hook-like supports 21. With the slide retracted or set holders 21 are directly beneath the central delivering-slot 22 of the match-receptacle 23. The opposite portions 24 of the bottom of the receptacle are so inclined or curved as to automatically feed the matches toward slot 22. One end of the slot is preferably enlarged at 22′ to provide for unobstructed passage for the match-heads. Receptacle 23 is provided with a depending bottom portion 25, adapted to fit over and around the base portion, as shown. The receptacle may be provided with a hinged cover 27. It will be understood, however, that the shape of receptacle 23, also the opening for inserting the matches, is immaterial and may be made in a variety of attractive designs.

For automatically igniting the matches as they are being delivered one at a time by the slide I provide an elongated resilient spring 26, which is secured at its inner end to one of the sides 3 and projects toward the forward end of the box and is normally bowed inward in the path of the slide and of the match-head, and the inner surface of the spring being roughened the match-head being pushed forward thereover is automatically ignited. The spring is of sufficient resilience to be pushed back by the advancing match and slide and offers no material resistance to the movement thereof.

The matches are placed in receptacle 23 with their head ends arranged together and

are fed automatically and one at a time through slot 22 and into slide-holders 21, and when the match is desired it is only necessary to depress pin 19, when the slide moves forward and delivers the match, which is automatically ignited while being delivered, so that the user simply lifts the ignited match from supports 21. When thus extended, top 6 of the slide extends across and closes slot 22, from which it is impossible for the next match to emerge until the slide is returned and supports 21 positioned thereunder.

I do not limit myself to the form of spring here shown for projecting the match-delivering device, as the same may be actuated by springs arranged in a diversity of ways, and the same is true of the slide-holding latch. It will also be understood that the structural formation of the delivering-slide, as well as that of the base and the match-receptacle, may be varied without departing from the spirit and scope of the invention.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of a base, a raised slide having depending side flanges forming runners which bear on the base, mechanism positioned beneath the raised slide for actuating the same, the slide being formed with a match-receiving depression, and a match-receptacle formed with a bottom opening adapted to deliver matches to the slide-depression, substantially as shown and described.

2. The combination of a base open at its forward end, an elevated slide movable horizontally within the base, a resilient band secured at one end to the rear portion of the base and at its opposite end secured to the under side of the slide, a transverse pin secured to the forward portion of the base over which said band passes, the slide being formed with a match-holding depression, and a match-receptacle above the slide and formed with a bottom opening adapted to deliver matches to the slide, substantially as shown and described.

3. The combination of a base, an elevated slide movable horizontally therein and formed with a match-holding depression, mechanism beneath the slide for projecting the latter, a latch for holding the same normally retracted, a forward projection on the slide extending without the base and forming a pushing device for retracting the slide, and a match-receptacle formed with a bottom opening adapted to deliver matches to the slide-depression, substantially as shown and described.

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

WILLIAM H. BURDEN.

Witnesses:
J. M. NESBIT,
ALEX. S. MABON.