

Feb. 26, 1924.

1,485,102

A. S. WELLS

MATCH RECEPTACLE

Filed Feb. 20, 1922

Fig. 1.

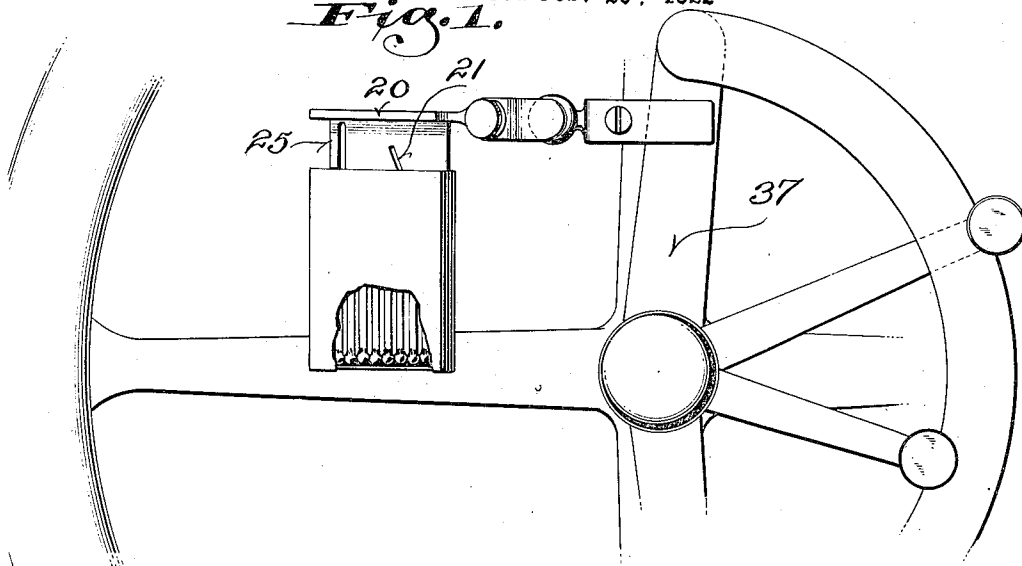


Fig. 2.

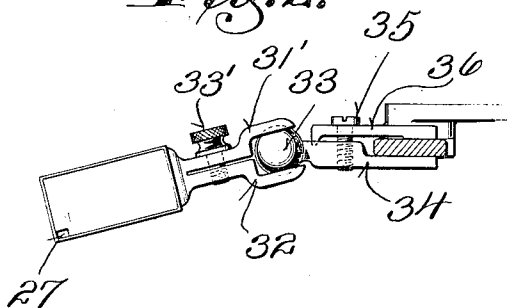


Fig. 3.

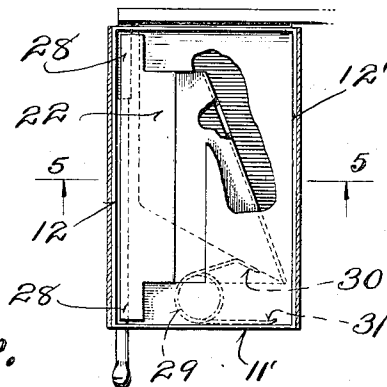


Fig. 4.

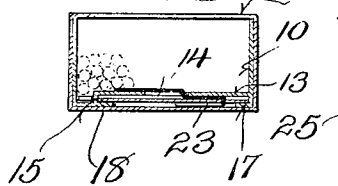


Fig. 6.

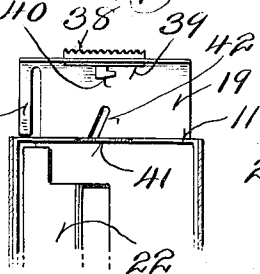


Fig. 5.

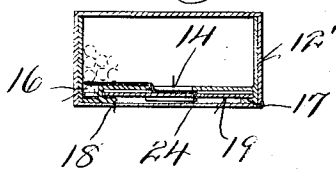
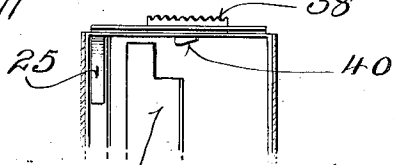


Fig. 7.



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By *[Signature]*
Attorneys

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1,485,102

UNITED STATES PATENT OFFICE.

ALBERT S. WELLS, OF MILWAUKEE, WISCONSIN.

MATCH RECEPTACLE.

Application filed February 20, 1922. Serial No. 537,747.

To all whom it may concern:

Be it known that I, ALBERT S. WELLS, a citizen of the United States, and resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Match Receptacles; and I do hereby declare that the following is a full, clear, and exact description thereof.

10 The invention relates to devices for feeding matches from a box.

The invention comprises a box containing matches, a traveler moving transversely of the box, a slide manually operable to advance the matches into a recess from which they are expelled by a tongue moving with the slide and a spring for returning the slide to a position wherein the tongue is retracted and the recess is adapted to receive another match for discharge on the succeeding movement of the slide.

20 A primary object of the invention is the provision of devices operable to advance a single match, the forces of gravity and of a transversely directed traveler operating to direct a match into the recess and a tongue projects the end of the match through an opening where it is adapted to be received by the hand. Thus, there is no danger of jamming and the action of the spring in restoring the parts to normal position after the advancing of a match is quick so that a very small period of time is occupied in the operations.

35 An object of the invention is the provision of mechanisms adapted to hold a match in the recess after the end has been projected through the opening. This eliminates tendency for the match to fall out of the box. The parts retaining the match in position have a mere frictional engagement therewith and inconsiderable resistance to the movement of the hand in retracting same results.

45 An object of the invention is the adaptation of the structure in suchwise that the operation of one hand is capable of performing the desired functions, the returning of the parts to normal position resulting from spring action.

50 An important feature is a latch actuable by the finger to move laterally and lock the slide in contact with the box so that the device may be stored in the pocket conveniently, a minimum of room being occupied.

55 An additional feature is the arrangement

of parts, whereby the box may be mounted on the circle or segment of the steering wheel of an automobile. The structure is of such nature as to be applied to any steering wheel, at the same time retaining the box in any desired position so that it may be conveniently and rapidly operated.

60 An additional advantage is the provision of parts easily constructed, light in weight, and assembled so as not to rattle, small in number, compact, taking up a minimum of room in a match box, and thus being adapted especially for use with safety matches without limiting the number of matches carried. The device is, however, useful for matches of all kinds and sizes.

70 With the above and other objects in view, which will appear as the description proceeds, my invention resides in the novel construction, combination and arrangement of parts, substantially as hereinafter described and more particularly defined by the appended claims, it being understood that such changes in the precise embodiment of the herein disclosed invention may be made as come within the scope of the claims.

80 In the accompanying drawing, I have illustrated one complete example of the physical embodiment of the present invention constructed according to the best mode I have so far devised for the practical application of the principles thereof, and in which:

Figure 1 is a plan of the device as applied to a segment of a steering wheel.

Figure 2 is a side elevation of the device, the segment being shown in section.

Figure 3 is a cross section of the box and parts associated therewith.

Figure 4 is a transverse section through the box.

Figure 5 is a transverse section on the line 5—5 of Figure 3.

Figures 6 and 7 are sections of the box with a catch applied thereto.

Box 10 may be used alone or in combination with a cover 10' having open ends, as is the case in the ordinary safety match box. Box 10 comprises end walls 11, 11', side walls 12, 12', and bottom 13 having an opening 14 therein and a downwardly directed portion 15 forming a recess 16. From side wall 12' a flange 17 is directed inwardly at the bottom and is on the same plane with flange 18 directed inwardly from downwardly directed portion 15. Flanges 17 and

18 provide guides for slide 19 which is integral with flange 20. Slide 19 is provided with a slot 21 and a traveler 22 having its major portion resting on bottom 13 is de-
5 formed so as to extend through opening 14 and extension 23 thereon being received between bottom 13 and slide 19. A flange 24 is directed through slot 21 so that reciprocation of slide 19 causes movement back
10 and forth of traveler 22, thus when flange 20 is in the position shown in Figure 3, traveler 22 is moved towards the left. It is, however, retained in position by means of the extension 23 and flange 24 cooperating with
15 bottom 13 and slide 19.

Tongue 25 integral with flange 20 and spaced slightly from slide 19 is adapted to move inwardly with these parts and extend into recess 16. The reciprocation of traveler
20 22 operates to carry matches in succession to recess 16 and in this operation it is assisted by the force of gravity. The recess is proportioned to receive a single match. On the feeding of a match into recess 16,
25 the movement inwardly of tongue 25 causes its end to contact with the end of the match 26 projecting it through an opening 27 in end wall 11, as shown in Figure 3. Traveler 22 maintains a slight frictional engagement
30 with the match so that it does not fall out. This engagement is along the length of the match as far as end wall 11, as traveler 22 is provided with ears 28, making the greatest dimension of the traveler substantially that of box 10.
35

After the parts have assumed the position shown in Figure 3, match 26 may be withdrawn by the hand. Slide 19 terminates short of end wall 11 against which spring
40 29 is adapted to contact, the space making ample room for this element, an arm 30 of which is suitably secured to slide 19 and an arm 31 of which is adapted to slide along end wall 11'. The tension in spring 29 resulting from the inward movement of slide
45 19 operates on the release of manual pressure on the parts to restore them to the position shown in Figure 1. Traveler 22 is then moved towards the right.

50 Integral with flange 20 are a pair of arms 31' 32 through which a thumb screw 33' is directed for tensioning arms 32 on ball 33, which is integral with jaw 34 through

which a screw 35 is threaded for moving jaw 36 relatively thereto so that the device
55 may be secured to segment 37. Screw 33' may be so adjusted that the box 10 may be altered in position by the application of a slight degree of force and obviously the relation between arms 32 and ball 33 is such
60 that the box may occupy any desired position. Consequently, the operator may procure a match by the merest movement of his hand and the steering wheel is not in any manner neglected in driving.
65

It will be noted that the structure is such as not to interfere with the movement of parts associated with the wheel.

The modification shown in Figures 6 and 7 have a thumb latch 38 integral with a
70 plate 39 contacting with flange 20 and capable of actuation by the finger to move catch 40 so as to engage with end wall 11 through opening 41. The latch may be used on the modification shown in Figure 1, but is preferably adapted for a box carried in the
75 pocket in which form slot 42 is directed in an opposite direction to the form shown in Figure 3 and the movement inwardly of slide 19 causes a movement towards the
80 right of traveler 22 and the projection of a match by tongue 25.

I claim:—

1. The combination of a box for containing matches, a traveler transversely reciprocable therein, a slide, means cooperating
85 with said slide and said traveler for reciprocating said traveler on the reciprocation of said slide, and means for feeding said matches from said box, said box having an opening through which said matches are directed.
90

2. The combination of a box for containing matches, a slide, means cooperating with said slide for feeding matches from said
95 box, said box having an opening through which said matches are directed, and means rigid with said slide for securing said slide to a rest, but permitting the universal adjustment in position thereof.
100

In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee, in the county of Milwaukee and State of Wisconsin.

ALBERT S. WEILLS.