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1,658,321

J. E. ZOMNIR

CARD MATCHES

Filed Oct. 6, 1925

Fig. 1.

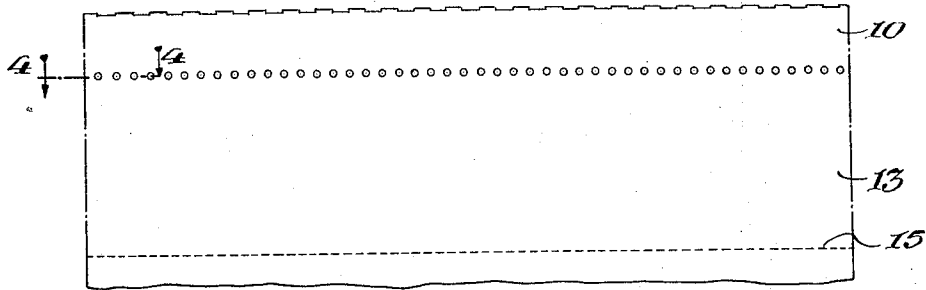


Fig. 2.

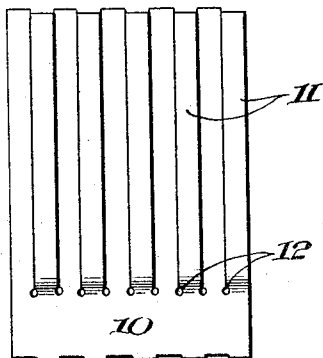


Fig. 3.

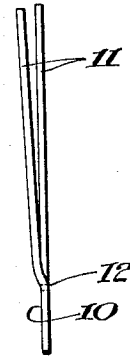


Fig. 5.

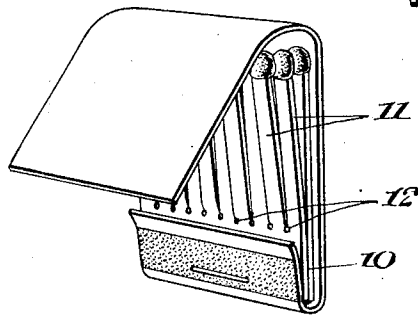
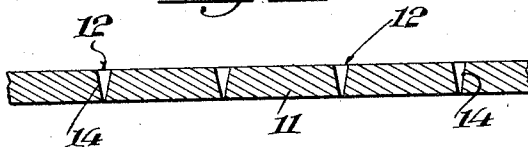


Fig. 4.



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UNITED STATES PATENT OFFICE.

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CARD MATCHES.

Application filed October 6, 1925. Serial No. 60,869.

This invention relates to that class of card matches wherein a row of splints projects from a common marginal portion from which they are intended to be individually torn, the alternate splints being spread or staggered at their juncture with the integral marginal portion in order to separate their free ends and permit the efficient application thereto of the paraffin and head composition during the match making process. The invention has especial reference to so-called paper book matches wherein match cards are associated with a flexible protective cover which is folded upon and secured to the margins of the cards in such a manner that each individual splint can be grasped and be torn from its base or marginal portion.

The object of my invention is so to construct the basal ends of the splints, without appreciably weakening their connection with the marginal portion, as to permit the easy and uniform manual removal of each individual splint without any liability of disrupting the marginal portion or mutilating the adjacent splints, as will be hereinafter described and claimed.

In the drawings—

Figure 1 represents a piece of paper match stock having a transverse row of perforations formed therein preparatory to the cutting and staggering of the splints.

Fig. 2 illustrates a card of match splints, enlarged, as cut from the perforated stock.

Fig. 3 is an end view of the said card.

Fig. 4 is a transverse section, enlarged, as on the line 4—4 of Fig. 1.

Fig. 5 is a perspective view of a match book having cards of matches embodying my invention.

The match card herein illustrated comprises a marginal strip 10 of paper match material from one edge of which projects a row of splints 11 integral with the strip, which splints are treated with paraffin and are tipped with match composition in the usual manner to provide a card of matches. During the incision of the web to form the splints the alternate splints are laterally

spread or staggered at their juncture with the marginal portion, as best seen in Fig. 3, in order to separate their free ends for the ready application thereto of the paraffin and head compositions. The respective basal edges of the splints, when they are laterally bent or flexed at the marginal strip, are formed with small tapering nicks or indentations 12 which facilitate the easy and uniform manual separation of the individual matches from the marginal strip. These indentations being relatively small and tapering do not unduly weaken the splints on the line of flexure incident to the spreading or staggering of the splints, and hence the operation of efficiently dipping the splints is unaffected.

As illustrated in Fig. 1 the web 13 of material from which the successive cards are to be made is formed with a transverse row of tapering perforations 14 before the operation of cutting and staggering the splints 11, and of separating the card of splints from the web along the dotted line 15.

The row of perforations is positioned on the web to define the basal ends of a row of splints, and the adjacent perforations are centrally spaced apart correspondingly with the width of a match splint so that the longitudinal incisions of the web by the cutting mechanism, to produce the splints, enter the respective perforations in a manner to form the described nicks or indentations in the basal edges of adjoining splints.

The perforations 13 are preferably produced in the web by a row of properly spaced tapering points which are effective to penetrate the web from its upper to its lower surface, as seen in Fig. 4.

I claim—

1. A match card comprising sheet material having a marginal portion and a row of splints projecting therefrom in close edgewise relation, said splints being alternately staggered at their juncture with the marginal portion and having small tapering indentations in their respective basal edges.

2. A match card comprising sheet material having a marginal portion and a row of splints projecting therefrom in close edge-wise relation, said splints being alternately staggered at their juncture with the marginal portion and the adjacent edges of each pair of adjoining splints terminating in a small tapering perforation which penetrates the basal ends of the splints from front to back. 10

Signed at Springfield in the county of Hampden and State of Massachusetts this 30th day of Sept. A. D. 1925.

JOSEPH E. ZOMNIR.