

June 8, 1926.

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W. F. JETTER

MATCHES AND CONTAINER THEREFOR

Filed August 7, 1925

Fig. 1

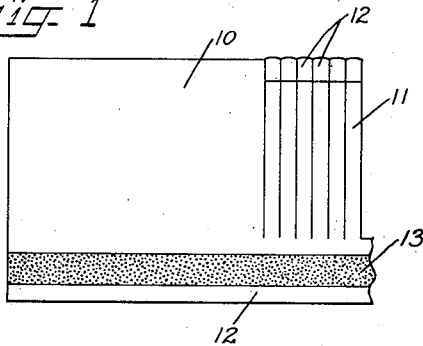


Fig. 2

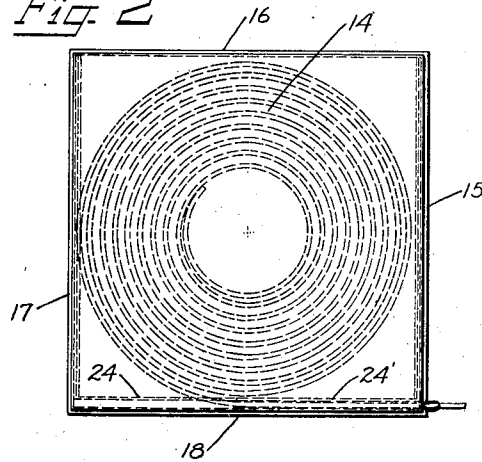


Fig. 4

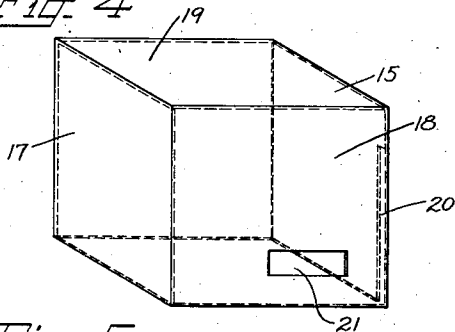


Fig. 3

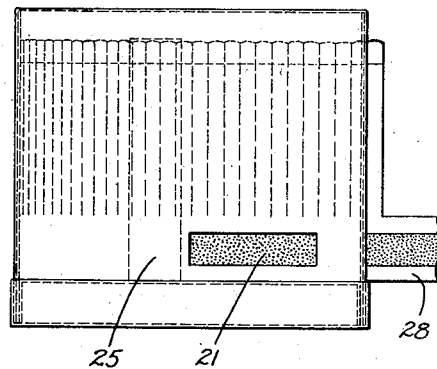


Fig. 5

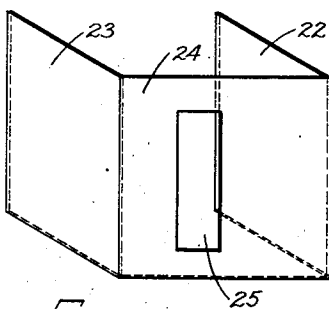


Fig. 6

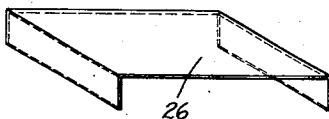
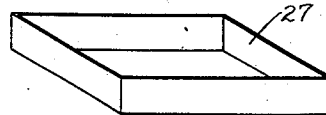


Fig. 7



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UNITED STATES PATENT OFFICE.

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MATCHES AND CONTAINER THEREFOR.

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My invention relates to matches, and has particular reference to that form in which the bases of the individual matches are joined to form a continuous strip, the material of which the strip is made usually being a compressed paper or other fibrous material which permits the individual matches to be torn from the strip as desired.

10 This form of match is usually of the safety type, that is, the type in which the head of the match can be lighted only by friction against a special igniting compound. It is to be understood, however, 15 that the present invention is not to be limited to use in connection with safety matches, but may be applied as well to the ordinary form of friction match which may be ignited on any suitable striking surface.

20 It is often desirable to have matches in this form available in units containing a comparatively large number of individual matches, but heretofore it has been impracticable to provide these matches in this 25 form as the striking compound which must be provided deteriorates rapidly with use, and in the ordinary package an area on the container which may be conveniently covered with this material, is insufficient to 30 serve for igniting all the matches in the package before complete deterioration takes place.

35 It is the object of my invention, therefore, to provide a novel form of match strip, on which the striking compound may be placed in such a manner that the amount of striking surface provided is directly proportional to the number of matches in the strip. A further object of my invention is 40 to provide a container for such a strip which will contain as large a number of matches as may be desired, and which used in conjunction with the strip will present exposed for use a striking surface which is self re- 45 newing and which remains efficient as an igniter until all the matches in the container have been used.

50 It is also an object of my invention to provide both a match strip and container therefor, which may be readily manufactured at a cost which will enable the container to be discarded when the strip is exhausted, although it is to be understood that the container may, if desired, be made 55 of a substantial material adapted for permanent use, and in a form which may be re-

filled with fresh strips of matches, rolled or otherwise formed into compact bundles or packets, which will hereinafter be termed "cartridges."

60 Other and further objects of my invention will appear from the following detailed description of an embodiment of my invention described in connection with the accompanying drawings in which: 65

Figure 1 is a diagrammatic view of a portion of a match strip made in accordance with my invention;

Figure 2 is a plan view of a container with a match strip therein; 70

Figure 3 is an elevation of Figure 2, and,

Figures 4 to 7 are views in perspective of the several elements of which the container is constructed.

Referring now to Figure 1, the numeral 75 10 indicates the fibre strip from which the matches are formed in the usual manner, the end portion of the strip as indicated at 10 being left as an integral piece for a reason to be explained hereinafter. The individual 80 matches 11, with heads 12, are formed by cutting or slitting the strip and dipping it in a suitable compound in the ordinary and well known manner.

85 In the exercise of my invention the strip 10 is made somewhat wider than the length of the match in order to leave an extended integral edge portion 12 extending the length of the strip, and upon this extended portion 12 there is provided in any suitable 90 manner, as by gluing or painting on, a narrow band 13, of a striking compound suitable for use with the matches 11. The strips so formed may be made of different lengths as desired, depending upon the 95 number of matches desired in a single unit, and may be rolled in the form of a cylinder, as shown at 14 in Figures 2 and 3, but in order to realize the objects of my invention as herein set forth, the strip is made of rela- 100 tively great length and comprises a large number of individual matches.

105 In Figures 4 to 7 I have illustrated the parts necessary for the construction of one form of container, but it is to be understood that the number, form and assembly of the several elements entering into the construction of the container may be considerably varied without departing from the scope of my invention, which aims at the provision 110 of a container suitable for cooperation with the particular form of match strip just de-

scribed. The container illustrated comprises an outer rectangular case, as shown in Figure 4, having side walls, 15, 16, 17 and 18, and a top 19, the bottom being left open.

5 In the side wall 15, and along one edge thereof, slot 20 is provided, approximately the thickness of the match strip and equal in length to the width of the strip, and in the face of the adjacent side wall 18, a slot

10 21 is provided approximately equal in width to the width of the band 13, and which is so placed, relative to the bottom edge of the side wall, that when the match strip is placed within the container, the band 13

15 will lie directly beneath the slot 21, as indicated in Figure 3. A filler (Figure 5) is provided, to be inserted in the outer case, the filler having sides 22, 23 and 24, somewhat shorter than the corresponding sides

20 15 and 17 of the outer case, so that when the filler is inserted within the case the side 24 of the filler is spaced from the side 18 of the outer case a distance substantially equal to the thickness of the match strip 10. A

25 slot 25 is provided in the side 24 of the filler, and the outer end of the match strip forming the roll 14 is passed through this slot. The roll and filler are then inserted within the outer case as shown in Figure 2, with

30 the end of the match strip projecting through the slot 20, the slots 25 and 20 being so arranged that when the roll is inserted within the case the band 13 is in registry with the slot 21 in the side 18 of the outer case. The roll is held in position

35 by the piece 26, the turned edges of which serve to hold the sides 22 and 23 of the filler against the sides 16 and 17 of the outer case, the bottom of the latter being closed by the cap 27.

40 The use of the match strip will be readily apparent from an inspection of Figures 2 and 3, showing the assembled match strip and container. The match strip is unrolled

45 as desired by pulling on the tab 28, formed by the bottom edge portion of the strip, and the individual matches are broken therefrom for use as desired. It will be evident that as the strip passes beneath the opening

50 21 a continuously fresh portion of the band 13 will be exposed, so that a fresh striking surface will be available until the entire contents of the container have been used. The integral end portion 10 of the

55 match strip, previously referred to, is provided at the inner end of the strip in order that the band 13 may extend beyond the last match on the strip to provide a striking surface under the opening 21 until the last

60 match has been withdrawn from the container.

As pressure must be applied against the band 13 in striking matches thereon, it is necessary that a support be provided to hold

65 the strip against the inner side of the wall

18 of the outer case, and it is for this purpose that the filler is provided, the match strip being firmly held under the opening 21 by the portion 24' of the filler. As will be obvious from Figure 2, the portion of the strip under the opening 21 will be held in position irrespective of the size of the roll 14.

I claim:

1. As a new article of manufacture, a 75 cartridge comprising a relatively long strip of frangible flexible material arranged in packet form and cut to form a plurality of matches having a common base formed by one edge portion of said strip, said matches 80 being provided with friction heads, and a band of striking compound adapted to ignite said match heads disposed along the edge portion of said strip for the full length thereof. 85

2. As a new article of manufacture, a cartridge comprising a relatively long strip of material arranged in packet form and cut to form a plurality of matches having a common base formed by one edge portion of 90 said strip, said strip having an extended uncut end portion, said matches being provided with friction heads and a band of striking compound adapted to ignite said match heads disposed along the edge portion of said strip for the full length thereof. 95

3. In articles of the class described, the combination, of a match strip having an integral edge portion, a band of striking compound disposed along said edge portion, and 100 a container for said strip, said container having an opening through which said strip is adapted to be progressively withdrawn and being constructed and arranged to progressively expose a portion of said band as 105 the strip is withdrawn from said container.

4. In articles of the class described, the combination of a match strip having an integral edge portion, a band of striking compound disposed along said edge portion, 110 and a container for said strip, said container having an opening in the wall portion thereof through which said strip is adapted to be progressively withdrawn and having an opening positioned to register with and 115 progressively expose a portion of said band as the strip is withdrawn from said container, and means for supporting the exposed portion of said strip.

5. In articles of the class described, the 120 combination of a match strip having an integral edge portion and an extended integral end portion, a band of striking compound disposed along the full length of said edge portion, and a container for said strip, said 125 container having an opening through which said strip is adapted to be progressively withdrawn and an opening positioned to register with and progressively expose a portion of 130 said band as the strip is withdrawn from said

container, the portion of the band on the integral end portion of said strip providing a striking surface for use with the last matches withdrawn.

- 5 6. In articles of the class described, the combination of a match strip having an integral edge portion, a band of striking compound disposed along said edge portion, and a container for said strip, said container
10 comprising an outer case having an open-

ing through which said strip is adapted to be progressively withdrawn and an opening positioned to register with and progressively expose a portion of said band as the strip is withdrawn from said container, and a 15 filler having a slot therein through which said strip passes, said filler supporting the exposed portion of said strip beneath the opening in the outer case.

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