

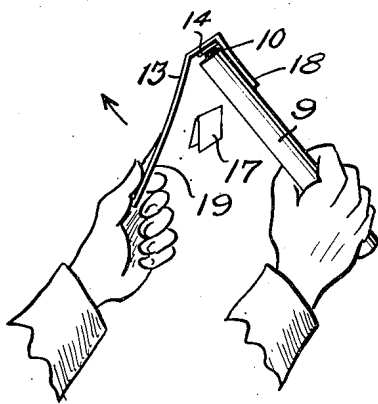
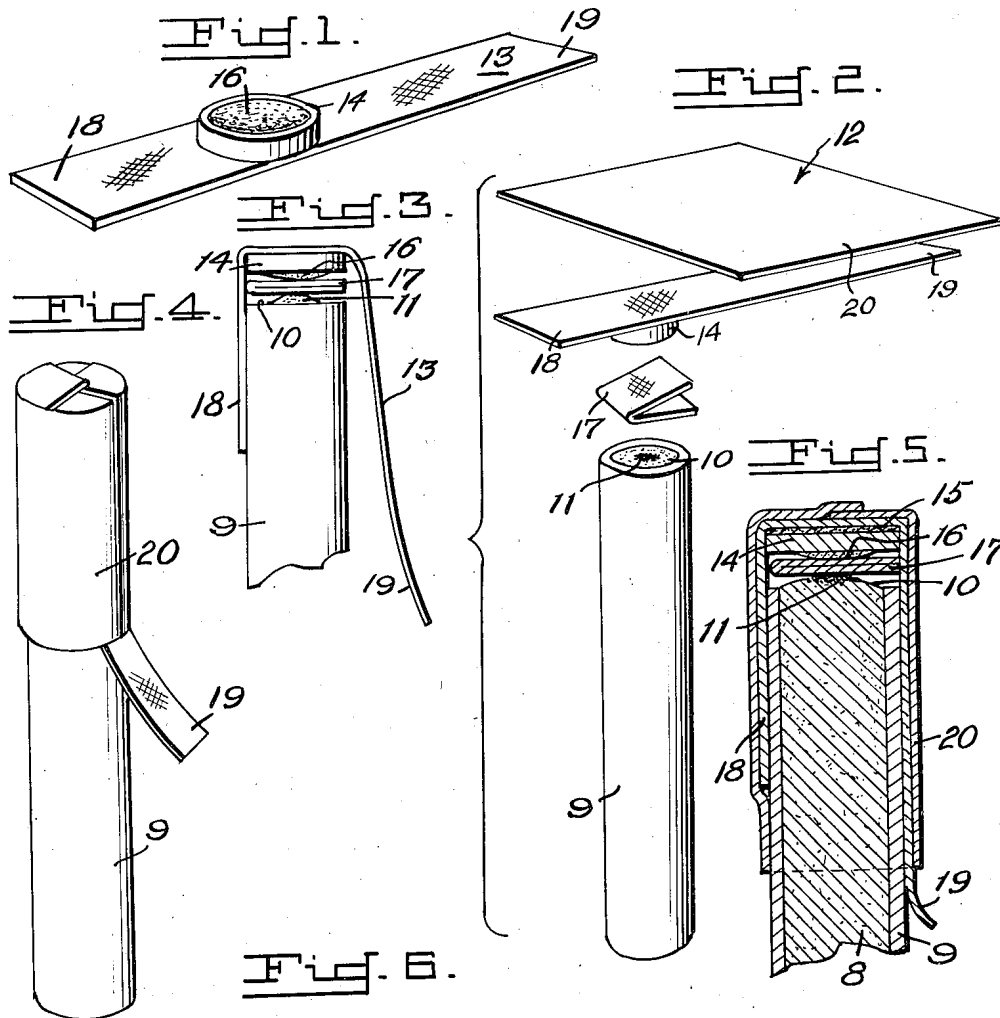
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FUSEE LIGHTER

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FUSEE LIGHTER

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2 Claims. (Cl. 102-70)

1

This invention relates to an improved means for igniting or lighting fuses of the type generally employed for producing a colored fire to utilize as a visual warning signal.

More particularly, it is an aim of the present invention to provide a lighting or igniting attachment adapted to form a part of the fusee and which can be quickly actuated for igniting the fusee body to permit the visual warning signal produced thereby to be rendered operative in minimum of time and which is extremely important in order that the visual signal can be given in time to produce its safety affect.

Still another object of the invention is to provide a lighter or igniting means for a fusee which can be actuated with safety and which is so constructed that prior to use there is no danger of the fusee body being inadvertently ignited due to negligence or improper handling thereof.

Various other objects and advantages of the invention will hereinafter become more fully apparent from the following description of the drawing, illustrating a preferred embodiment thereof, and wherein:

Figure 1 is a plan view of the igniting attachment;

Figure 2 is an exploded perspective view of the various parts attached to the fusee body for normally maintaining the igniting attachment in an inoperative position;

Figure 3 is a fragmentary side elevational view showing the igniting attachment partially assembled on the fusee body;

Figure 4 is a perspective view showing the fusee body with the igniting attachment fully assembled thereon;

Figure 5 is a fragmentary longitudinal, substantially central sectional view of the upper portion of the fusee body containing the igniting attachment, and

Figure 6 is a perspective view showing the fusee and igniting attachment as held for igniting the fusee body.

Referring more specifically to the drawing, the numeral 8 designates generally a fusee body which is formed of a slow burning composition characterized by the emission of a colored light and which is molded into an elongated cylindrical form and enclosed except for its upper end in a tube or coating of a suitable protective material 9 which will likewise burn or melt readily when the body 8 is ignited. As best seen in Figure 5, the fusee body 8 has a convex upper end 10 which protrudes slightly above the upper, open end of the tube 9 and at least the top central portion of

2

which is coated or otherwise provided with a match head or similar igniting material 11.

The lighting attachment, designated generally 12, includes an elongated strip of a relatively strong and flexible fabric 13, such as muslin. A disk 14 is secured by a coating of glue or other bonding means 15 to one side of the strip or tape 13 and so that it will be disposed closer to one end than to the other end thereof. The outer or exposed side of the disk 14 has a coating 16 suitably secured thereto of a striking material such as red phosphorus which when scraped across the match head material 11 will cause the latter to ignite.

A folded piece 17 of a fabric, such as muslin, is applied over the end 10 of the fusee body 8 and accordingly over the igniting material 11 and the striking material 16 of the disk 14 is then positioned against the opposite side of the protective piece or pad 17, as best seen in Figure 3, and so that the disk 14 will be disposed substantially in alignment with the fusee body 8. The shorter end 18 of the tape 13 is then suitably secured as by means of a bonding medium or otherwise, not shown, longitudinally of and to the outer side of the tube 9, as best illustrated in Figures 3 and 5, and the other, longer end 19 of the tape 13 is extended longitudinally of the protective tube 9 and on the opposite side thereof to the shorter, secured end 18.

Said end of the fusee and the parts applied thereto are then enclosed in a wrapper or cap 20 of paper or other material capable of being readily torn and which is wrapped around the upper end of the fusee and folded over the tape 13, disk 14 and pad 17 and secured in cap form, as illustrated in Figure 4, as by means of paste, glue or other bonding medium, not shown, and so that only the extremity or the longer end 19 of the tape 13 will protrude from the open end of said cap 20 to form a tab adapted to be readily grasped between the fingers.

To ignite the fusee body 8, the fusee is grasped and held with either hand and the tab 19 is grasped between the fingers of the other hand and an outward pull is exerted thereon and which will cause the cap 20 to be torn off. With the fusee held at an angle of about 45-degrees, as illustrated in Figure 6, after the wrapping or cap 20 has thus been torn away from the fusee, by the outward pull on the tab 19, the pad 17 will drop by gravity from its position between the elements 11 and 16, due to the pull on the longer end of the tape 13 in a direction away from the fusee. The manually held end 19 of the tape can then be moved back and forth in a direction generally

3

around the fusee body for scraping the striking surface 16 across the igniting material 11 for igniting the latter, and which will ignite the upper, convex end 10 of the fusee body 8, after which the secured end 18 of the tape 13 is torn 5 off of the tube 9, so that the fusee 8 can burn unobstructed.

Various modifications and changes are contemplated and may obviously be resorted to, without departing from the spirit or scope of the invention as hereinafter defined by the appended 10 claims.

I claim as my invention:

1. In a fusee lighter, in combination with a fusee body having igniting or match head material fixed to one end thereof, a flexible tape hav- 15 ing one end bonded longitudinally to the fusee body, a striking element carried by said tape and disposed over the end of the fusee body containing the igniting or match head material and disposed in opposed relationship thereto, a protec- 20 tive member interposed between the striking material and match head material, and a wrapper of a readily tearable material enclosing said end of the fusee body and the portions disposed there- 25 beyond, the opposite end of said tape being longer than the first mentioned, secured end thereof to

4

protrude beyond the open end of said wrapper to form a tab adapted to be manually engaged and pulled in a direction away from the fusee body for tearing the wrapper from the fusee body and for releasing said member interposed between the striking surface and igniting material whereby said tab end of the tape may be swung relatively to the fusee body for scraping the striking element across the igniting material for igniting the latter and the adjacent portion of the fusee body.

2. A fusee lighter as in claim 1, said tape having a disk secured to one side thereof and to the exposed side of which the striking element is secured.

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