

N. DOWLING.
FLASH LIGHT SQUIB.
APPLICATION FILED APR. 11, 1912.

Patented Nov. 12, 1912.

1,043,811.

FIG. 1 -

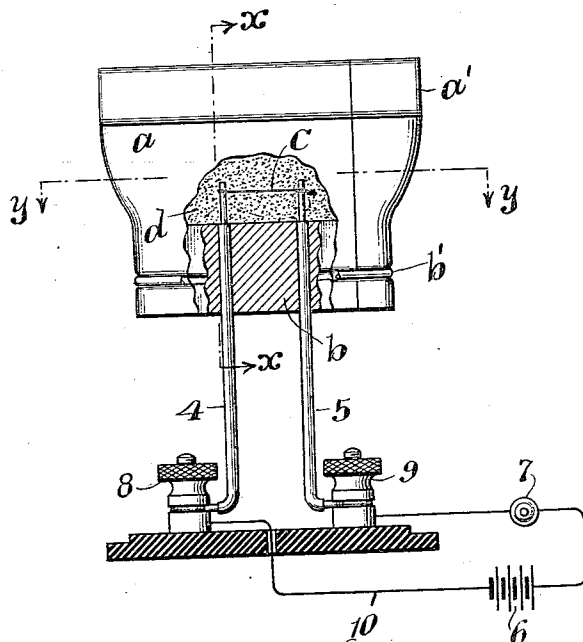


FIG. 2 -

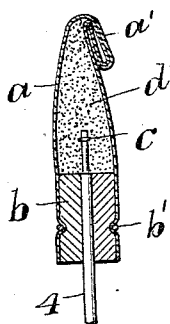
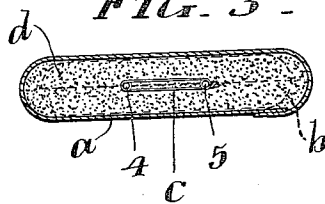


FIG. 3 -



WITNESSES
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NORTH DOWLING, OF PHILADELPHIA, PENNSYLVANIA.

FLASH-LIGHT SQUIB.

1,043,811.

Specification of Letters Patent.

Patented Nov. 12, 1912.

Application filed April 11, 1912. Serial No. 690,156.

To all whom it may concern:

Be it known that I, NORTH DOWLING, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Flash-Light Squibs, of which the following is a specification.

My present invention has for its principal object the providing of powder for photographic flash-light purposes when put up in an envelop connected with a block through which lead-wires are inserted for connection with a battery or other source of electric energy, the wires inside the envelop and about the flashing powder therein are coupled together by means of a readily fusible wire, whereby in fusing is adapted to set off quickly the powder for producing a flash-light.

My invention will be more fully understood from the following description taken in connection with the accompanying drawings forming part hereof, in which—

Figure 1, is a side view enlarged of a flash-light squib, embodying the particular main features of my said invention. Fig. 2, is a vertical section of the squib on the line $x-x$ of Fig. 1; and Fig. 3, is a transverse section of the squib on the line $y-y$ of Fig. 1.

Referring to the drawings a , is the squib, consisting of preferably an oblong envelop of paraffined paper or the like, and which at one end is secured to a block of wood or other suitable insulating material b . Through the said block b , are inserted insulated lead-wires 4 and 5, from a battery or other source of electric energy. These wires 4 and 5, are uninsulated within the envelop a , and coupled together by means of a readily fusible wire c , as shown in Fig. 3.

The envelop at its upper end is unsealed to permit of supplying flash powder d , hereinto, and about the uninsulated wires and 5 therein, coupled together by said

fusible wire c , as clearly illustrated in Fig. 1.

The envelop a , containing a suitable charge of flash-light powder at the upper end is foldable onto itself as shown in Fig. 1, to prevent spilling of the loose powder therein while handling or during the arranging of the lead-wires 4 and 5, thereof, with the battery or other source of electric energy, in order to place the squib in a condition for use to derive a flash-light therefrom.

The apparatus in which such a squib as above explained is well adapted for use, forms the subject matter of an application for United States Letters Patent, Serial No. 685,109, filed by me under date of March 19th, A. D. 1912, and to which recourse may be had.

Having thus described the nature and object of my said invention, what I claim as new and desire to secure by Letters Patent is:—

A squib, consisting of a paper envelop adapted to contain flashing powder, the envelop at one end secured to a grooved block by means of a wire fastening and through which block vertically lead-wires are inserted to extend beyond the upper end of said block, within said envelop, the opposite end of said envelop unsealed and foldable onto itself, and the said lead-wires insulated outside of said block but within the said envelop uninsulated and a readily fusible transverse wire coupled to said wires within said envelop and about the mass of flash-light powder therein, substantially as and for the purposes described.

In witness whereof, I have hereunto set my signature in the presence of the two subscribing witnesses hereto.

NORTH DOWLING.

Witnesses:

THOMAS M. SMITH,
HELEN F. MILLER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."