

H. BARGMAN.

FUSE LIGHTER.

APPLICATION FILED JUNE 24, 1909.

945,673.

Patented Jan. 4, 1910.

Fig 1.

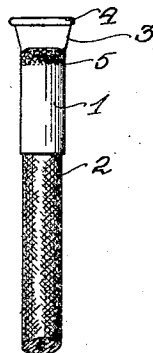
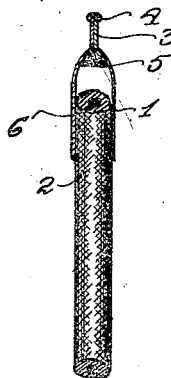


Fig 2.



WITNESSES:

H. M. Barstow
A. P. Plant

INVENTOR:

Harry Bargman

BY

Anton Blazynski
his ATTORNEY

UNITED STATES PATENT OFFICE.

HARRY BARGMAN, OF LOS ANGELES, CALIFORNIA.

FUSE-LIGHTER.

945,673.

Specification of Letters Patent.

Patented Jan. 4, 1910.

Original application filed April 26, 1909, Serial No. 492,374. Divided and this application filed June 24, 1909. Serial No. 504,198.

To all whom it may concern:

Be it known that I, HARRY BARGMAN, a citizen of Russia, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Fuse-Lighters, of which the following is a specification.

This invention has reference to a fuse lighter of the kind described and claimed in my co-pending application for patent filed April 26, 1909, Serial Number 492,374, of which this application is a division.

An object of this invention is to provide an ignitable seal for the free end of fuses, which forms an effective covering for the powder in the duct of the same, and also an instantaneous lighting medium for the fuse.

Another object of this invention is to provide an igniter for fuses which eliminates the necessity of carrying lighted torches, matches and the like into the mines preparatory to setting off a blast charge, and in which the lighting agent for the fuse igniter is self-contained, frictional abrasion alone being necessary to initially combust the inflammable material of which the cap is composed.

With these and other objects in view, this invention consists of the features and details as will be described in connection with the accompanying drawing, and then be more specifically pointed out in the claims.

In the drawing, Figure 1, is a side elevation of my improved lighter, and Fig. 2, is a sectional elevation of the same.

Specific reference being had to the drawing, 1, designates a tubular body of inflammable material adapted to be fitted over the free end of a fuse 2. One end of said tubular body is flattened and sealed together, as seen at 3, and on the extremity of said flattened end is placed a composition of material 4, which is ignitable alone by friction. This composition is essentially a match and serves to ignite the inflammable tubular body 1, and to thereby avoid the use of direct flames in tunnels and drifts where the accumulation of natural gases would render the presence of fire dangerous. In mines where such conditions do not exist, this ignitable tab conveniently saves time when for

any reason the flame of a torch or other burning lighter, is accidentally extinguished. This match end may be coated with a waterproof substance to preserve the same against the decomposing action of the drippings and moisture in a mine. At that point where the edges of the cap are flattened to form a firing tab, a small charge of powder, seen at 5, is placed, and being at the time of insertion thereof in a moldable and plastic condition, it readily unites with the walls of the cap, and upon the hardening of the same, becomes an inseparable part thereof. Thus combustion of the tab 3, having been started by the frictional ignition of the match at the end of the cap, the heat or flame is rapidly transmitted to the powder charge 5, and the ensuing combustion of this charge, immediately fires the fuse, irrespective of the distance of the charge from the duct of the fuse 2.

What I claim, is:—

1. A tubular igniter adapted to fit over the free end of a fuse, said igniter having a thinned extremity provided with a frictionally ignitable composition, and a powder charge within and inseparably united with said tubular igniter.

2. An igniter comprising a tubular body of inflammable material provided with a tab, said tab having a frictionally ignitable substance, and a powder charge within said tubular body and in proximity to said tab, said powder charge being united with said tubular body.

3. A fuse igniter comprising a tubular body of celluloid adapted to snugly fit over and form a seal for the free end of a fuse, said body having one end thereof flattened to form a lighting tab and a seal for the free end of the same, a powder charge within and chemically united with said tubular body, and a frictionally ignitable composition on said tab to communicate ignition to said powder charge.

In testimony whereof I affix my signature in the presence of two witnesses.

HARRY BARGMAN.

Witnesses:

H. M. BARSTOW,
ANTON GLOETZNER, Jr.