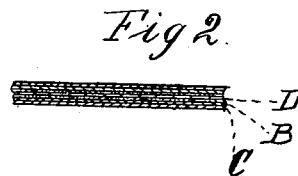
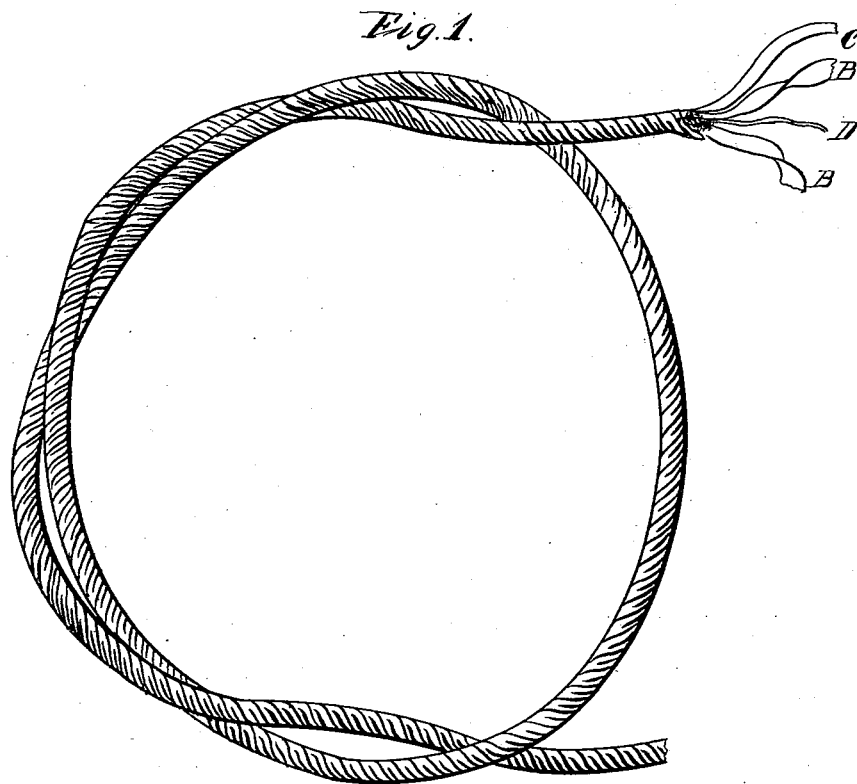


R. BACON.  
FUSE FOR BLASTING, &c.

No. 4,957.

Patented Feb. 5, 1847.



# UNITED STATES PATENT OFFICE.

RICHARD BACON, OF SIMSBURY, CONNECTICUT.

## IMPROVEMENT IN FUSES FOR BLASTING, &c.

Specification forming part of Letters Patent No. 4,957, dated February 5, 1847.

*To all whom it may concern:*

Be it known that I, RICHARD BACON, of Simsbury, in the county of Hartford, State of Connecticut, and a citizen of said State, have invented and reduced to practice a new and useful Improvement in the safety-fuse used for igniting the charge in blasting rocks and other substances, both in dry or wet ground, above or under water, which fuse is in common use in this country, and was patented in England by William Bickford in the early part of the reign of William the IV, and is sometimes called the "patent safety-fuse," and sometimes the "miner's safety-fuse," of which the following is a specification.

My improvement consists in providing for communicating the fire with more certainty to the charge, to effect which I insert lengthwise through the fuse, and as near the center of the powder or other combustible matter as may be, a thread saturated with a solution of niter, sulphur, or any other combustible material or substance.

The fuse with my improvement is represented in the accompanying drawings in Figures 1 and 2, of which Fig. 2 is a longitudinal and central section.

A represents a portion of the perfect fuse.

B B represent the threads that compose the frame-work of the fuse.

C represents the threads that cover the frame-work spirally, and are called the "countering threads."

D represents the saturated thread or cover in the center of the powder, extending lengthwise through the fuse.

What I claim as my improvement, and for which I ask Letters Patent, is—

The combination of the saturated cover-thread with the fuse, substantially in the manner above described.

RICHARD BACON.

Witnesses:

J. W. THAYER,  
H. P. SMOOT.