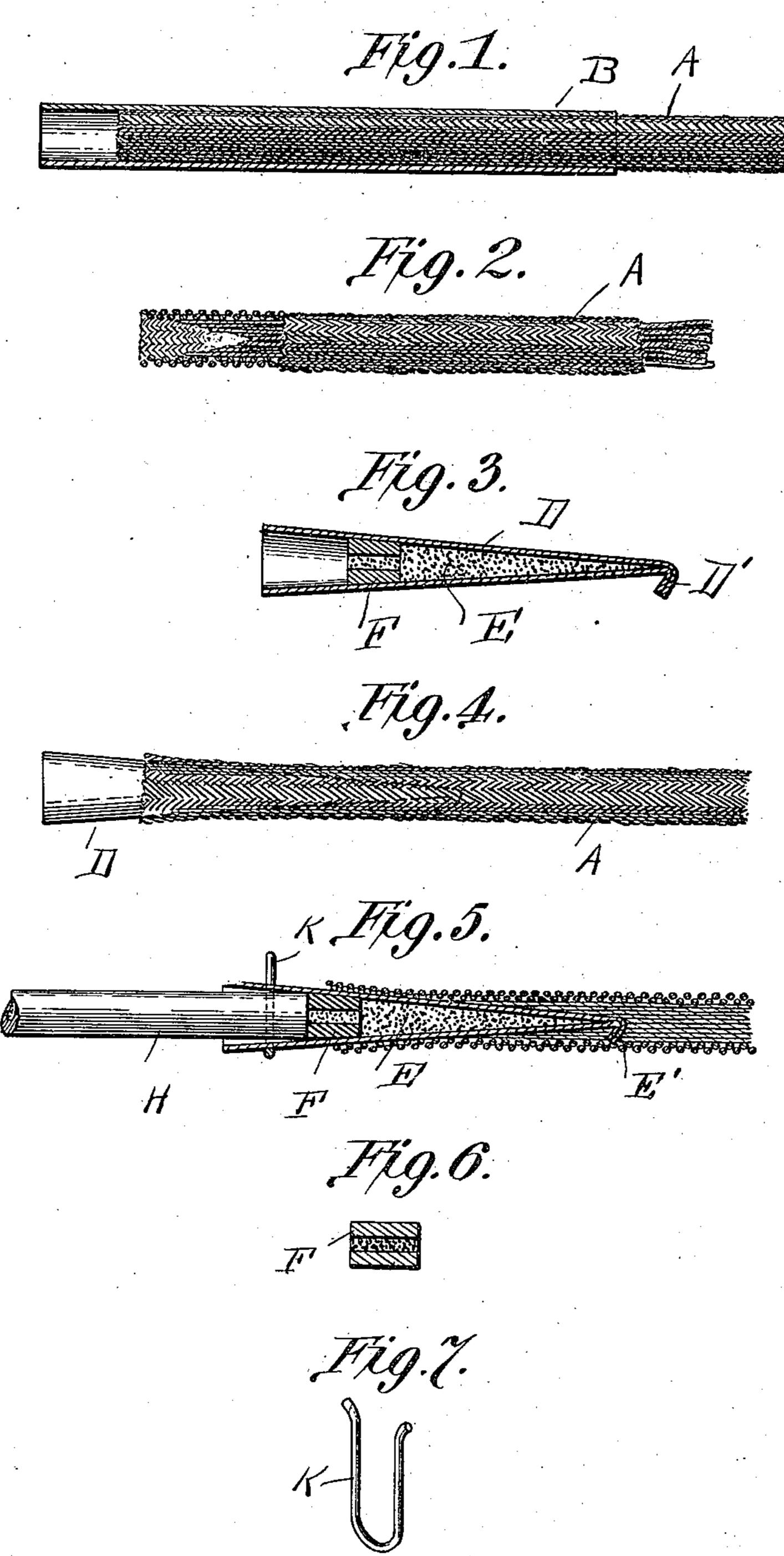
F. C. REED.
TIME IGNITER.
APPLICATION FILED AUG. 21, 1906.



Witnesses: Sw. Fispatrick Wm L. Lagrane

Treventor, Francis Gen Rud

UNITED STATES PATENT OFFICE.

FRANCIS CICERO REED, OF SOUTH MCALESTER, INDIAN TERRITORY.

TIME-IGNITER.

No. 845,374.

Specification of Letters Patent.

Patented Feb. 26, 1907.

Application filed August 21, 1906. Serial No. 331,540.

To all whom we may concern:

Be it known that I, Francis Cicero Reed, a citizen of the United States, residing at South McAlester, Choctaw Nation, Indian Territory, have invented new and useful Improvements in Time-Igniters, of which the following is a specification.

This invention relates to new and useful improvements in time-igniters for fuses, and comprises various details of construction and arrangements of parts, which will be hereinafter fully described and then specifically defined in the appended claims.

My invention is illustrated in the accom-

15 panying drawings, in which—

Figure 1 is a side elevation of a flameless torch. Fig. 2 is a side elevation of a slow-match made of loosely-woven fabric. Fig. 3 is a sectional view of a conical-shaped capsule. Fig. 4 is a view showing the capsule applied to a slow-match. Fig. 5 is a sectional view showing the capsule applied to the fuse and the slow-match. Fig. 6 is a detail view of the stopper, and Fig. 7 is a view of the device for holding the capsule to the fuse.

Reference now being had to the details of the drawings by letter, A designates a slow match made of a loosely-woven fabric.

B, in Fig. 1, shows a cylindrical holder.

D designates a capsule made, preferably, of paper bent into conical form and filled with powder and has its apex D' bent to form a hook designed to engage the fabric of the slow match.

F is a plug or stopper fitted within the capsule and has a central opening filled with

powder.

H designates a fuse one end of which is held within the capsule by means of the hold-

ing device K, whereby the parts may be con-

nected together.

In adjusting the device for use the capsule is inserted within the slow-match, the hook portion D' caught in the meshwork of 45 the fabric in the manner disclosed in Fig. 5 of the drawings, and afterward said capsule is loaded, the fuse being held to the capsule by the U-shaped device shown in Fig. 7. When the slow-match burns up to the tapered 50 end of the capsule, the latter is ignited, after which the powder therein is burned and the fuse ignited.

What I claim is—

1. A time-igniter consisting of a slow- 55 match made of a resilient woven fabric, a capsule containing powder, one end of said capsule bent to form a hook adapted to engage the fabric, a fuse, and means for connecting the same to the capsule, as set forth. 60

2. A time-igniter consisting of a slow-match made of a resilient woven fabric, a capsule containing powder, one end of said capsule bent to form a hook adapted to engage the fabric, a fuse, and a U-shaped 65 clamping device adapted to frictionally hold the fuse and capsule together, as set forth.

3. A time-igniter consisting of a slow-match made of a resilient woven fabric, a capsule made cone-shaped and its apex bent 70 to form a hook designed to engage the loosely-woven fabric of the slow-match, a stopper mounted within said capsule, a fuse, and means for connecting the latter to said capsule, as set forth.

FRANCIS CICERO REED.

Witnesses:

GEORGE FITZPATRICK, J. HOWARD PHILLIPS.