

(No Model.)

R. F. COOKE.
SLOW MATCH.

No. 557,556.

Patented Apr. 7, 1896.

FIG. 1.

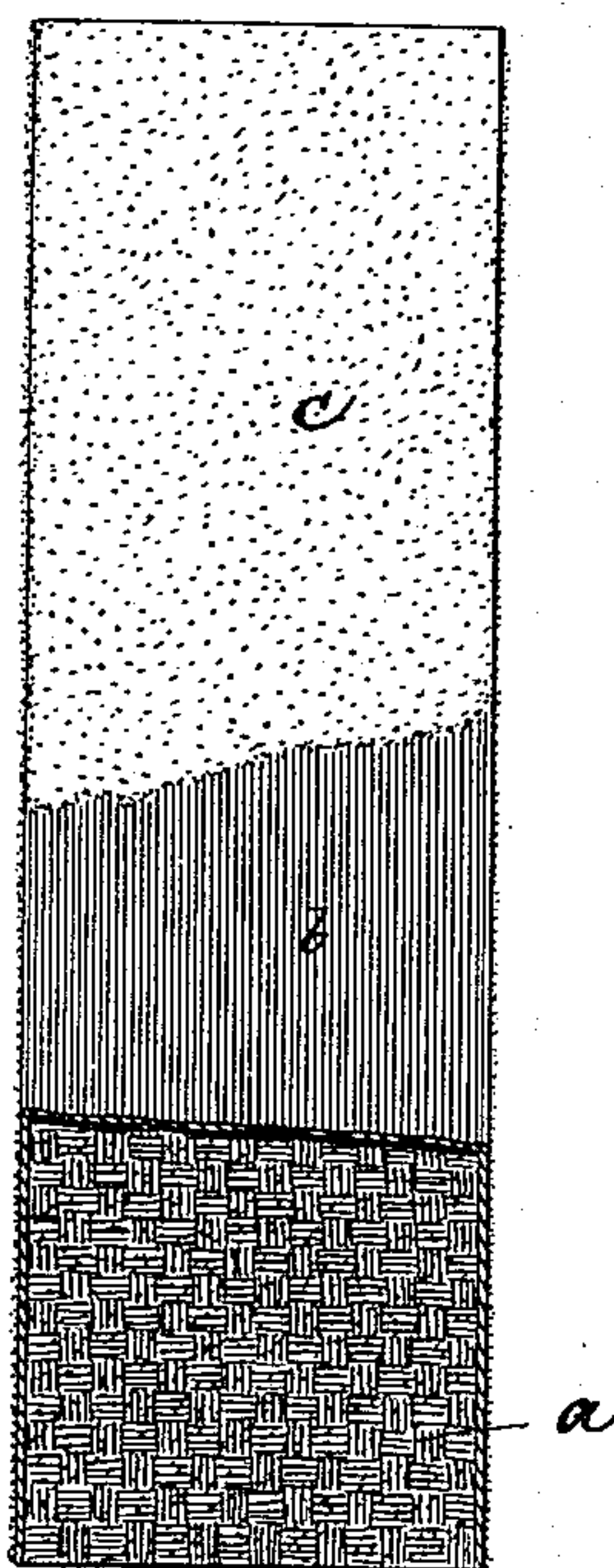
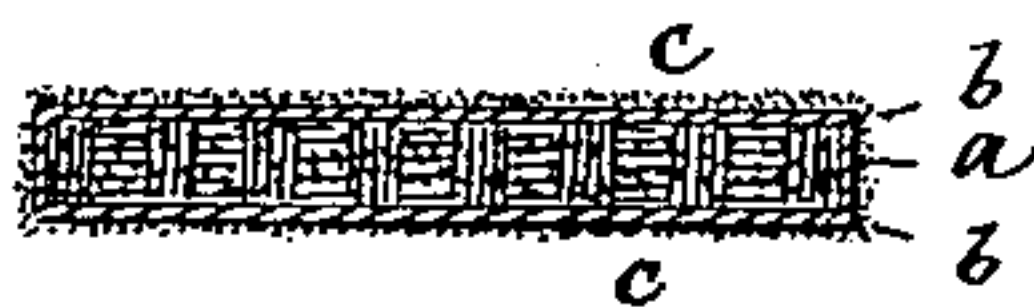


FIG. 2.



Witnesses:
John Becker
Frederick Seibel.

Inventor:
Robert F. Cooke
by his attorneys
Roederst Briesen

UNITED STATES PATENT OFFICE.

ROBERT F. COOKE, OF BROOKLYN, NEW YORK, ASSIGNOR TO EMMA M. COOKE, OF SAME PLACE, AND EDWARD SANDFORD, OF NEW YORK, N. Y.

SLOW-MATCH.

SPECIFICATION forming part of Letters Patent No. 557,556, dated April 7, 1896.

Application filed December 31, 1895. Serial No. 573,889. (No specimens.)

To all whom it may concern:

Be it known that I, ROBERT F. COOKE, a citizen of the United States, and a resident of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Slow-Matches, of which the following is a specification.

This invention relates to a slow-match more particularly designed for use in cigar-lighters and which is so constructed that it will not become extinguished even by a strong wind.

In the accompanying drawings, Figure 1 is a side view, partly cut away, of my improved slow-match; and Fig. 2 is a cross-section thereof.

In manufacturing my improved slow-match I steep a textile or paper tape or core *a* in a boiling solution composed of about twenty parts of sugar of lead and eighty parts of water. The sugar of lead will be absorbed by the tape *a*, and after it has dried the tape is steeped in a bath of melted paraffin, which forms a coating or envelop *b*. While the paraffin is still in a soft state the tape is passed through a box containing powdered metal magnesium, which is pressed into the paraffin, as at *c*, by a pair of rolls, when the slow-match is completed.

In my improved slow-match the textile core constitutes the flame-carrying body. The

sugar of lead serves to cause the core to become incandescent when ignited and to burn with a bright glow. The paraffin serves as a flame-feeder, and the powdered magnesium serves to throw off sparks and to prevent the extinction of the slow-match when subjected to a strong draft or wind.

When my improved slow-match is once ignited, it becomes practically impossible to extinguish the same except by cutting off entirely the air supply.

The match will burn brightly and with a flame sufficient to light a cigar or other combustible object. It is ignited by means of a spark thrown from a percussion-tape in a cigar-lighting implement.

What I claim is—

A slow-match which is not extinguishable by wind, and which consists of a core saturated with sugar of lead, a paraffin coating, and powdered magnesium embedded therein, substantially as specified.

Signed at New York, in the county of New York and State of New York, this 30th day of December, A. D. 1895.

ROBERT F. COOKE.

Witnesses:

F. v. BRIESEN,
FREDERICK SEIBEL.