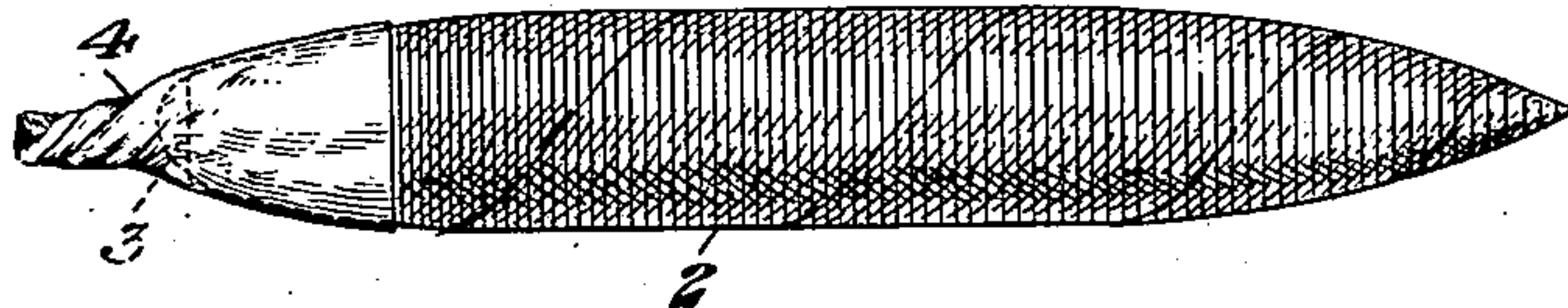


(No Model.)

A. CHATELAN.  
COMPOSITION FOR LIGHTING CIGARS.

No. 594,677.

Patented Nov. 30, 1897.



WITNESSES

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his attys

# UNITED STATES PATENT OFFICE.

ALFRED CHATELAN, OF BUTLER, PENNSYLVANIA.

## COMPOSITION FOR LIGHTING CIGARS.

SPECIFICATION forming part of Letters Patent No. 594,677, dated November 30, 1897.

Application filed July 19, 1897. Serial No. 645,134. (No specimens.)

*To all whom it may concern:*

Be it known that I, ALFRED CHATELAN, of Butler, in the county of Butler and State of Pennsylvania, have invented a new and useful Improvement in Compositions for Lighting Cigars and Cigarettes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, in which the figure shows a cigar provided with my improved lighter.

My invention relates to the compositions employed for lighting cigars and cigarettes, these compositions being applied to the end thereof and ignited in the same manner as a match; and it consists in a new and improved composition for this purpose.

In the drawing, 2 represents a cigar having at its end a lighting device 3, which is covered and protected by the wrapper 4, which is preferably applied by an adhesive.

The device consists of two parts, the first part being a readily-combustible material which ignites the tobacco and is adapted to burn to a red coal, and the second part consisting of an outer head which is adapted to be lighted by friction and thus ignite the other layer. I compound the first layer, preferably, in the following manner: I first dissolve a suitable amount of resin in a readily-evaporating liquid, such as acetic ether, and then add thereto peroxid of manganese, permanganate of potash, and chlorate of potash. The three last-named elements are the essential parts of the inner layer, and I preferably add thereto powdered coke, cinnamon-bark, and a small amount of shredded cotton. The ether is then allowed to evaporate, leaving a dry powder, which is mixed up with an adhesive, such as gum-arabic, and applied to the end of the cigar or cigarette. The materials are preferably used in about the following proportions: peroxid of manganese, sixteen parts; permanganate of potash, fifteen parts; chlorate of potash, twenty parts; coke, twenty-five parts; cinnamon-bark, fifteen parts, and cotton, one part. The outer layer or head may be made of any suitable frictionally-igniting material, though I prefer to use the following ingredients: amorphous phosphorus, common phosphorus, saltpeter, and chlorate of potash. These materials may be mixed up with an adhesive and a small portion of the same applied to the cigar or cigarette outside the other composition.

In order to prevent accidental igniting of the prepared article, I preferably wrap about the outer end of the same a layer of thin paper or tobacco-leaf 4, this being preferably applied by an adhesive after the other materials have become dry. This wrapper prevents accidental ignition and may be removed when the cigar is to be lighted.

The advantages of my invention result mainly from the particular composition employed for the inner layer, as this composition will burn slowly to a red coal and insure the ignition of the tobacco, while no deleterious odors or fumes are produced. The resin employed is an important element, as it prevents moisture injuring the ingredients of the inner layer and waterproofs the same.

I claim—

1. A cigar or cigarette having at its end a combustible composition containing peroxid of manganese, permanganate of potash and chlorate of potash, and an outer frictionally-igniting head.

2. A cigar or cigarette having at its end a combustible composition composed of peroxid of manganese, permanganate of potash, chlorate of potash, powdered coke and cinnamon-bark, and an outer frictionally-igniting head.

3. A cigar or cigarette having at its end a combustible composition containing peroxid of manganese, permanganate of potash, chlorate of potash and a waterproofing material, and an outer frictionally-igniting head.

In testimony whereof I have hereunto set my hand.

ALFRED CHATELAN.

Witnesses:

M. S. MURPHY,  
H. M. CORWIN.