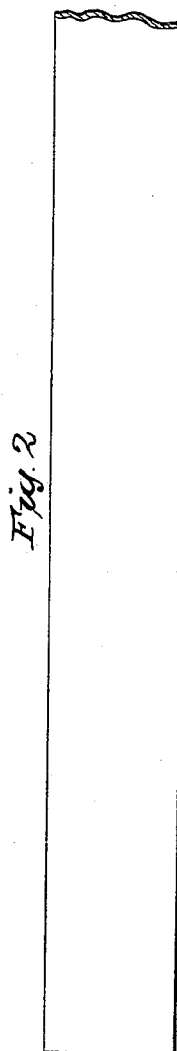
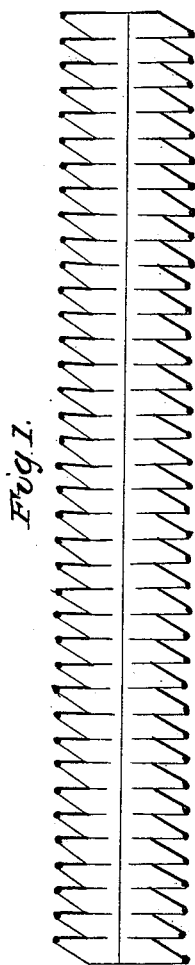


H. REIMAN.
Friction Match.

No. 50,843.

Patented Nov. 7, 1865.



WITNESSES
M. H. Livingston
A. F. Schleyer

INVENTOR
Henry Reiman

UNITED STATES PATENT OFFICE.

HENRY REIMAN, OF BROOKLYN, E. D., NEW YORK.

IMPROVEMENT IN FRICTION-MATCHES FOR LIGHTING CIGARS, &c.

Specification forming part of Letters Patent No. **50,843**, dated November 7, 1865.

To all whom it may concern:

Be it known that I, HENRY REIMAN, of the city of Brooklyn, E. D., county of Kings, and State of New York, have invented a new and useful Improvement in Friction-Matches; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a number of my improved matches when finished. Fig. 2 represents a strip of pasteboard before it is cut.

Common pasteboard or other equivalent material of suitable texture and thickness—say one-sixteenth of an inch thick—is cut in strips, as represented in Fig. 2, which are immersed in a hot solution of chlorate of potash and niter, until they are thoroughly soaked, when they are taken out and hung up to dry. They are now passed between pressing-rollers to make them more compact and give them a smooth surface. After this they are cut, as represented in Fig. 1, and their pointed ends then dipped into a paste that will ignite by friction. This paste may be the same as is used for common friction-matches. The cheapest being sufficient to ignite pasteboard or other stock thus prepared without fail.

The above solution of chlorate of potash and niter is made in the following manner: Take one pound of a mixture of chlorate of potassium and niter (in which the first named forms one part and the latter two parts) and dissolve it in one quart of boiling water, when it is ready for use.

The matches may be torn from the strips one at a time, as required for use, and are ignited

by rubbing them against a rough surface on the exterior box in which they are carried, or against any other rough surface.

To light a pipe the ignited match should be placed directly in the bowl; but it ignites all over so quickly, that in order to avoid burning the fingers in lighting a cigar, it will be desirable to carry the matches in a metal box, and to have provided in the said box a small empty chamber, into which the match may be placed while the cigar is held to it to be lighted.

These matches differ very essentially in their character from those prepared with niter alone; for those prepared with niter alone burn gradually from one end to the other, and one part is reduced to ashes, while the part but a short distance from it is not yet ignited; but these when ignited at one end become almost instantly in the condition of a live coal from end to end, presenting a much larger surface of fire at once to the tobacco or cigar, and burning long enough to enable either to be well lighted.

I do not confine myself to using pasteboard as a body for these matches, as other stock prepared in the manner above described might be used.

What I claim as my invention, and wish to secure by Letters Patent, is—

The preparation of pasteboard or other stock for friction-matches with a compound solution of chlorate of potash and niter, substantially as herein described.

HENRY REIMAN.

Witnesses:

M. M. LIVINGSTON,
A. F. SCHLEGEL.