

# United States Patent Office.

WILLIAM PORTER, OF ST. STEPHEN'S PARISH, CANADA.

Letters Patent No. 109,660, dated November 29, 1870.

## IMPROVEMENT IN MATCHES FOR CIGAR-LIGHTERS.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, WILLIAM PORTER, of St. Stephen's Parish, in the province of New Brunswick and in the Dominion of Canada, have invented certain new and useful Improvements in the Method and Means used for securing together and protecting the friction-ends of Matches; and do hereby declare that the following is a full, clear, and exact description thereof.

Heretofore, matches intended for use in lighting cigars have been packed in boxes, in order to confine them within a suitable compass, and also to protect the composition with which their ends were coated, by which means the cost of said lights to the consumer was largely increased.

To obviate this objection is the design of my invention, which consists in protecting the friction-ends of matches, and also in securing said ends together by means of gummed tissue-paper or its equivalent, substantially as is hereinafter set forth.

In putting up the lights, matches prepared by any known method are arranged in parallel rows, and their lower ends secured together by means of a coating of glue, or other equivalent adhesive mixture, leaving their upper or friction-ends in contact with, but disconnected from, each other. A piece of tissue-paper, corresponding in shape with but slightly larger in size than the upper end of the bunch of lights, is gummed upon one side, and applied to the friction-ends of said

lights or matches, which are thereby securely held together, and also are protected from injury while being handled. When a light is desired for use, the tissue-paper offers but a slight resistance to its removal from the bunch.

When it is desired to put up the matches singly or disconnected from each other, their ends are severally covered with a small piece of the gummed paper, which, for convenience, may be cut from the sheet by means of a round punch.

By this method of confining and protecting the matches, an equal degree of security and convenience is obtained at but a fraction of the expense heretofore required for such purpose.

Having thus fully set forth the nature and merits of my invention,

What I claim as new is—

The mode herein described for protecting the friction-ends of matches, and also securing said ends together by means of gummed tissue-paper or its equivalent, substantially as specified.

In testimony that I claim the foregoing, I have hereunto set my hand and seal this 11th day of November, 1870.

WM. PORTER. [L. S.]

Witnesses:

J. H. BEARDSLEY,  
JAMES MADDOCKS,