(No Model.)

J. W. DENMEAD.

MATCH.

No. 571,154. Patented Nov. 10, 1896.

Fig. 1.

Fig. 2.

Witnesses
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOHN W. DENMEAD, OF AKRON, OHIO, ASSIGNOR TO THE DIAMOND MATCH COMPANY, OF CHICAGO, ILLINOIS.

MATCH.

SPECIFICATION forming part of Letters Patent No. 571,154, dated November 10, 1896.

Application filed November 22, 1894. Renewed April 20, 1896. Serial No. 588,394. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. DENMEAD, a citizen of the United States, residing at Akron, in the county of Summit, and State of Ohio, have invented certain new and useful Improvements in Matches; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of a match made in accordance with my invention, and Fig. 2 shows a cross-section of the match.

Letters of like name and kind refer to like parts in each of the figures.

The object of my invention is to provide a match having a body or "stick" which will possess the stiffness or rigidity of splints constructed from wood, be tougher than the latter, so as to break less easily, and be handsomer and neater in appearance than the wooden match; and to this end my invention consists in the match constructed substantially as hereinafter specified.

In making a match body or stick in accordance with my invention a strip or piece of paper or other combustible flexible material is rolled or coiled tightly, and either all or only the outer overlapping portions are united by glue or some other adhesive substance. The rolling or coiling is such that the strip as it is coiled is carried in a direction lengthwise of the stick or body, so that the overlapping edges of the strip are in a spiral line passing around and along the body or stick, as shown in Fig. 2. Where the stick or body is thus formed by wrapping the strip spirally upon itself, the product can be made either in great lengths, to be subsequently cut to match-lengths, or cut off in match-lengths as fast as made.

While paper is the material I preferably employ in the practice of my invention, I wish it understood that I do not limit myself thereto, as other flexible combustible material capable of employment in the same way may be used.

As my invention has nothing to do with the construction of the head of igniting material A′, any composition for the purpose may be employed and applied in any desirable way, and the paper or other material employed may be of any preferred thickness, quality, and color.

I am aware that tubes for use instead of straws for drinking purposes have heretofore been made of spirally-wrapped paper strips treated with paraffin, and consequently do not claim such tubes as my invention.

The roll employed by me for the body of my match is not intended to be a tube, but a substantially solid roll, though, of course, in the manufacture a small opening may incidentally be left in the center. Such a roll, even with the central opening or hole, I consider to be within the scope of my invention as long as there are wrappings of the strip enough around the opening to form a good stiff body as distinguished from the thin paper tubes or drinking-straws above referred to.

Having thus described my invention, what I claim is—

1. A match having a body or stick formed of a strip of combustible material spirally wrapped upon itself so that each portion of the strip overlaps another portion, and a suitable head of ignitible material, substantially as and for the purpose specified.

2. A match having its body or stick formed of a strip of paper spirally wrapped upon itself so that each portion of the strip overlaps another portion, and a head of ignitible substance, substantially as and for the purpose shown.

In testimony that I claim the foregoing I have hereunto set my hand this 17th day of November, 1894.

JOHN W. DENMEAD.

Witnesses:
CHAS. C. BENNER,
GERTRUDE FOSTER.