

(No Model.)

G. E. SWAN.

ARROW.

No 295,304.

Patented Mar. 18, 1884.

Fig. 1

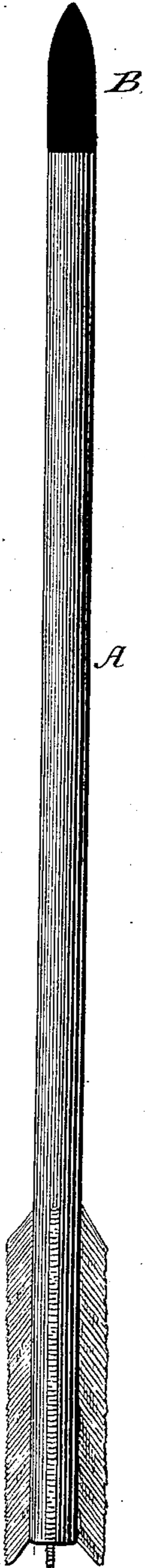


Fig. 2

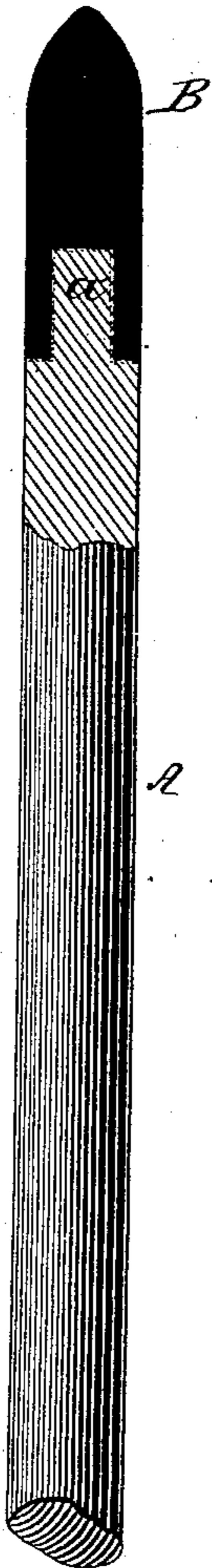
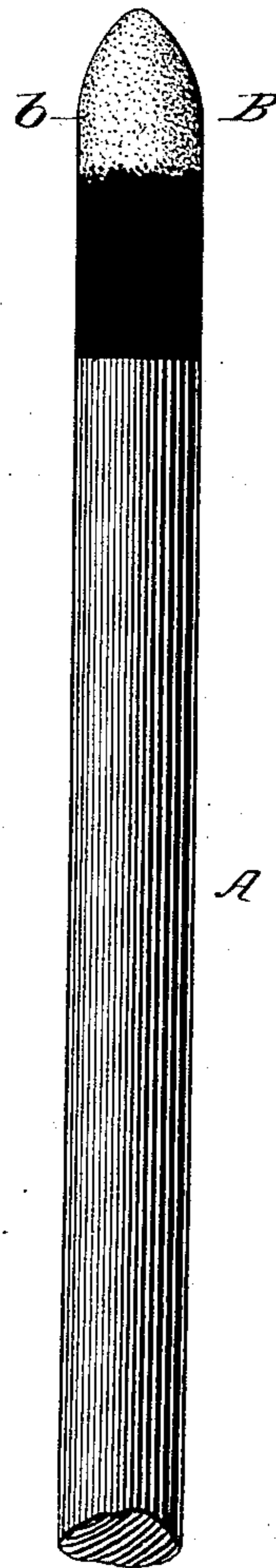


Fig. 3



WITNESSES:

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GEORGE E. SWAN, OF BEAVER DAM, WISCONSIN.

ARROW.

SPECIFICATION forming part of Letters Patent No. 295,304, dated March 18, 1884.

Application filed December 29, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. SWAN, a citizen of the United States, residing at Beaver Dam, in the county of Dodge and State of Wisconsin, have invented certain new and useful Improvements in Arrow-Heads; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to the heads or points of arrows, darts, or similar projectiles, and especially to that class of arrows which are designed for archery practice and other forms of amusements.

The object of my invention is to provide a simple, inexpensive, durable, and efficient head or point which will record the score of the arrow upon the target, but which will not injure any one by accidental contact.

To this end the invention consists, broadly, in attaching an improved elastic or flexible head, formed of rubber or other suitable soft material, to the rod, so that it will yield when it comes in contact with a resisting surface or any portion of the clothing, and will not enter or damage the same; and, further, in providing the head with a coating of chalk or equivalent substance, so that it will leave an impression upon the target, and thus register the score.

In the drawings, Figure 1 is a perspective view of an arrow having my improved head. Fig. 2 is a detail sectional view, taken on a longitudinal plane through the head and through a portion of the rod. Fig. 3 is a detail perspective view of the head of the arrow, showing it chalked, so as to mark the target.

Referring to the drawings, A designates the body or rod of the arrow, and B is the head, these parts being of any suitable shape and construction. The head B is preferably formed of rubber; but it can be formed of compressed flannel, cloth, or any other suitable material that is elastic or soft and will readily yield when it comes in contact with a resisting surface. This soft and elastic head is adapted to be securely fastened to the end or tip of the

rod A by glue, as shown at a, Fig. 2, or in any other suitable manner, and it is preferably provided with a recess which receives the corresponding point of the rod A. Chalk or other suitable material is applied (as often as becomes necessary) to the point of head B, as shown at b, Fig. 3, so that, when the head of the arrow strikes the target, it will leave a mark or impression with the chalk at the point where it strikes, but will not enter the target. By this means the score of the arrow is registered upon the target, and the latter, being not cut or injured by the arrow, is consequently more durable. The chalk marks can be easily erased from the target when desired.

The operation and advantages of my invention will be readily understood and appreciated. These arrow heads or points can be molded and attached to the rod at less expense than is occasioned in the manufacture and application of metallic and other points or heads, and by my invention all dangers to children and others in archery practice and similar amusements is entirely obviated.

I do not wish to be understood as limiting myself to the form and material herein shown, as numerous modifications may be obviously made to adapt my invention for practical use in darts and other projectiles designed for games and amusement.

I claim as my invention—

1. As an improvement in arrows, darts, and similar projectiles, the combination, with a flexible or elastic point, of a coating of chalk or equivalent substance adapted to leave an impression upon the target, substantially as set forth.

2. An arrow or other toy projectile embodying a rod or body and an elastic-pointed head having its point coated with chalk, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE E. SWAN.

Witnesses:

J. E. HOSMER,
JAMES WELCH.