

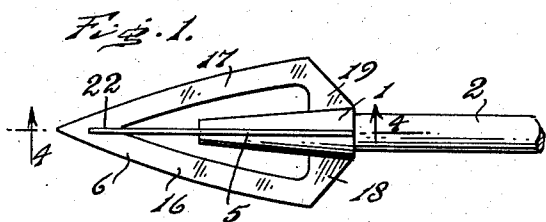
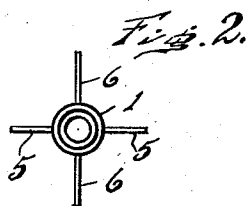
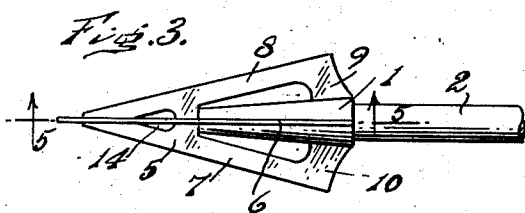
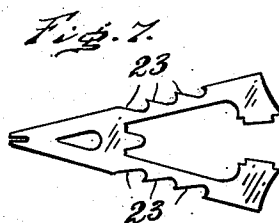
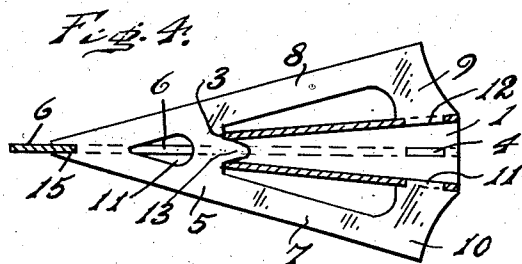
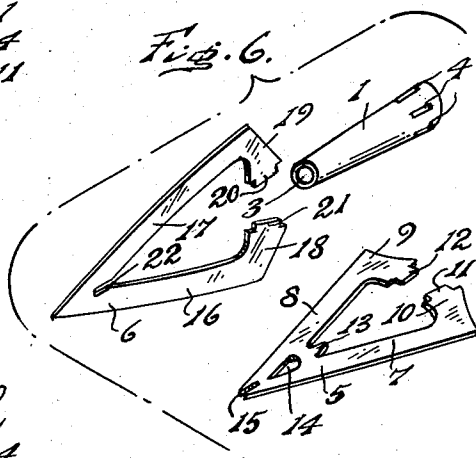
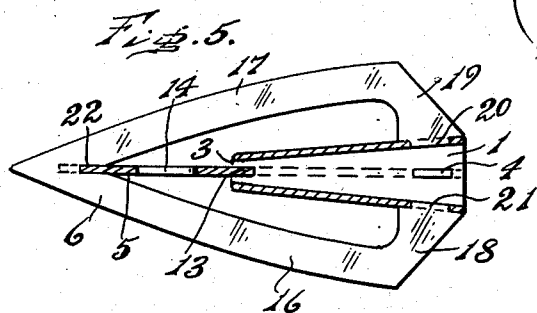
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ARROWHEADS

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ARROWHEADS

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4 Claims. (Cl. 273—106.5)

In hunting with a bow and arrow if the animal shot does not leave a blood trail, it is difficult and sometimes impossible to find the wounded animal.

The object of this invention is to devise a novel arrowhead or pile which will cause sufficient bleeding to leave a trail from the location at which the animal is shot to the location where it is hidden.

A further object of the invention is to devise a novel arrowhead constructed and assembled in a novel manner so that the component parts can be taken apart and assembled by unskilled labor and without the use of tools.

A further object of the invention is to devise a novel arrowhead having a ferrule to receive a shaft of any desired or conventional construction and having blades provided with cutting edges and converging to form a point, said blades being of novel construction to interlock with each other and also with the ferrule, said blades being preferably formed in integral pairs disposed at right angles to each other when assembled with the ferrule.

A further object of the invention is to devise a novel head having air openings between the blades and the ferrule, so that, when the arrow is in flight, it will not be deflected from its true flight path by air pressure against a side of the arrowhead.

With the foregoing and other objects in view as will hereinafter clearly appear, my invention comprehends a novel arrowhead.

For the purpose of illustrating the invention, I have shown in the accompanying drawings a preferred embodiment of it which I have found, in practice, to give satisfactory and reliable results. It is, however, to be understood that the various instrumentalities of which the invention consists can be variously arranged and organized, and the invention is not limited, except by the scope of the appended claims, to the exact arrangement and organization of these instrumentalities as herein set forth.

Figure 1 is a plan view of an arrowhead embodying my invention, with a portion of a shaft.

Figure 2 is a plan view similar to Figure 1 but taken at a right angle to that shown in Figure 1.

Figure 3 is an end elevation of the arrowhead.

Figure 4 is a section on line 4—4 of Figure 1.

Figure 5 is a section on line 5—5 of Figure 2.

Figure 6 is an exploded view of the component parts.

Figure 7 is a plan view of another embodiment of a blade forming member.

Similar numerals of reference indicate corresponding parts.

Referring to the drawings:

The arrowhead has a ferrule 1 converging forwardly and into which the shaft 2 is inserted. The forward end of the ferrule is open and provided with a seat 3. The ferrule near its rear end is provided with longitudinally extending slots 4 circumferentially spaced from each other to provide two pairs of slots with the slots of a pair diametrically opposite to each other. Cutting

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members 5 and 6 are formed to provide a pair of cutting blades, the members interlocking with each other and with the ferrule as will now be explained.

The member 5 is formed from sheet metal and is substantially triangular in form with cutting blades or barbs 7 and 8 which at their rear end portions merge into inwardly directed arms 9 and 10 respectively terminating in locking lugs 11 and 12 respectively. The member 5 has a centrally located, rearwardly extending positioning stud 13 in rear of an opening 14 and a slot 15 opens through the front end of the member 5.

The cutting member 6 is substantially triangular in form of sheet metal having the cutting blades 16 and 17 merging at their rear end portions into inwardly extending arms 18 and 19 respectively, which latter are provided with locking lugs 20 and 21 respectively. A rearwardly extending slot 22 is centrally located.

Assuming now that the component parts, the ferrule 1 and members 5 and 6 are to be assembled to form the completed arrowhead, the blades of the member 5 are pushed over the ferrule 1 to cause the positioning stud 13 to engage the seat 3 at the forward end of the ferrule. The locking lugs 11 and 12 are pushed or snapped into the slots 4 in the ferrule. The member 5 is now interlocked with the ferrule.

The blades 16 and 17 are now pushed over the ferrule and the member 5 passes into the slot 15 thus interlocking the members 5 and 6. The locking lugs 20 and 21 are snapped or pushed into slots 4 with which they register and the member 6 is interlocked with the ferrule 1. It will thus be apparent that the component parts of the arrowhead can be assembled or taken apart without the use of tools and by unskilled labor, so that if one or both members 5 and 6 are bent or injured they can be readily and quickly replaced by a new member. The members 5 and 6 are preferably made of spring steel properly tempered and sharpened and forming a cutting, conically pointed head.

An opening is provided between the cutting blades and the ferrule so that cross air currents will not deflect the arrow from its true path of flight.

In Figure 5, the blade forming member is the same as 5 in the other figures of the drawings except that the cutting edges for a portion of their length are serrated as shown at 23. This causes a ripping of the hide and flesh of the animal and more pronounced bleeding.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. An arrowhead capable of being assembled and taken apart without the use of tools, comprising a ferrule having near its rear end circumferentially spaced slots arranged in pairs with one pair diametrically opposite to the other pair, and having its front end terminating in a rearwardly directed seat, the periphery of the ferrule between the seat and the slots being continuous and unslotted, a first triangularly shaped cutting blade having at its forward portion a centrally located, rearwardly extending lug seated in said ferrule seat and having rearwardly diverging sides with lugs to seat in a pair of ferrule slots and thereby lock said blade in longitudinal alignment with the longitudinal axis of the ferrule, and a second cutting blade disposed at a right angle to the first blade and having rearwardly diverging sides having lugs to lock in a pair of ferrule slots, said blades in proximity to their front ends having a slip-joint connection with each other in advance of the front end of the ferrule.

2. An arrowhead capable of being assembled and taken apart without the use of tools, comprising a ferrule having near its rear end circumferentially spaced slots arranged in pairs with the slots of one pair diametrically

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opposite the slots of the opposite pair, a triangularly shaped blade of thin sheet material terminating at its front end in a V-shaped point, having a rearwardly extending lug seated in the front end of the ferrule, and having rearwardly diverging sides spaced from the ferrule and terminating in lugs seated in slots of a pair, and a second triangularly shaped blade of thin sheet material terminating in a V-shaped point, having rearwardly diverging sides spaced from the ferrule and terminating in lugs seated in slots of the other pair of slots, said blades having in proximity to said points and in advance of the ferrule interlocking portions maintaining the assembly of the blades and serving as a structural reinforcement of the portions of the blades in advance of the ferrule.

3. The construction defined in claim 2, wherein the interlocking portions include a slot opening through the point of the second blade and into which said first blade is seated with the side walls of such slot overhanging opposite faces of the first blade and serving as the sole means for connecting and structurally reinforcing the forward portions of the blades in advance of the front end of the ferrule.

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ward portions of the blades in advance of the front end of the ferrule.

4. The construction defined in claim 2, wherein the second blade has a slot opening through its front end into which the first blade extends and the first blade has a rearwardly extending slot into which the second blade extends with the side walls of such slots in one blade overhanging opposite faces of the other blade.

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