Oct. 5, 1926.

1,601,885

N. E. SAMSEL

DART

Filed July 17, 1926

Fig. 1.

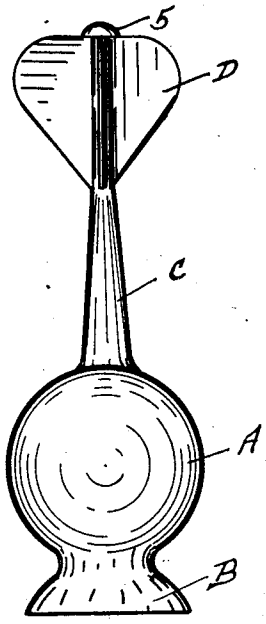


Fig. 2.

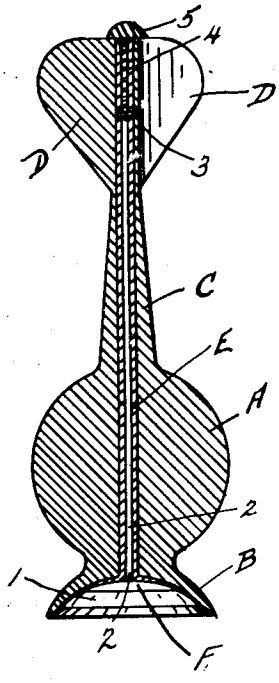
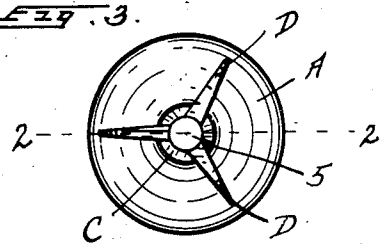


Fig. 3.



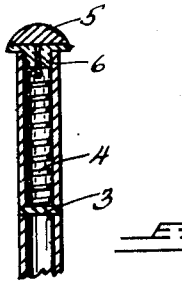
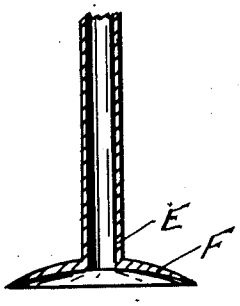


Fig. 4.



Inventor

Noble E. Samsel

By R. M. Thomas

Attorney

Patented Oct. 5, 1926. 1,601,885

UNITED STATES PATENT OFFICE.

NOBLE E. SAMSEL, OF OAKLAND, CALIFORNIA.

DART.

Application filed July 17, 1926. Serial No. 123,079.

My invention relates to games and has for its object to provide a new and efficient dart to be used in games where darts are thrown by the player.

A further object is to provide a dart to be thrown by hand and which will stick to the object against which it strikes.

A still further object is to provide a suction cup on the end of a dart whereby a vacuum may be caused which will hold the dart in the position in which it strikes a plane surface, and which will release when the vacuum is broken.

These objects I accomplish with the device illustrated in the accompanying drawings in which similar numerals and letters of reference indicate like parts throughout the several views and as described in the specification forming a part of this application and pointed out in the appended claims.

In the drawings of which I have shown the best and most preferred way of constructing my invention, Figure 1 is a side elevation of the dart. Figure 2 is a longitudinal section on line 2—2 of Figure 3. Figure 3 is a top plan view of the dart; and Figure 4 is a section of the central tube through the dart showing the release valve and spring therein, all of which is slightly larger than the other views and has a central portion cut away.

In the drawings I have shown the ball or body of my dart as A, which consists of a rubber ball about the size of a baseball. On one side thereof, I provide a rubber vacuum cup B of slightly smaller diameter than the ball, and on the diametrically opposite side of said ball I provide a tail piece C, which is tapered to the outer end thereof. At the outer end of said tail piece C I provide a tapered wing piece D made of three radially disposed fins, each projecting from the tail piece C at an equal angle from the other, dividing the space around the tail into three equal parts. The edge of the said vacuum cup B is tapered to form a better gripping edge thereon. Centrally through the said rubber dart I provide a metal tube E which has one end outwardly flanged and enlarged to form a concavo-convex disk F thereon. The convex face of said disk is shaped to conform with the concave side of the vacuum cup B, and a rubber covering 1 is provided on the concave side of the disk F with its peripheral edge sealed to or integral with the cup B. The said disk F and the tube E are centrally bored, as at 2, to allow passage of air therethrough. In the upper end of said tube E, I provide a cross rod 3 to which I secure a spring 4. The other end of said spring 4 is secured to a cap 5 by the eye bolt 6. The said cap 5 is made of metal and its lower edges, which rest against the said tube E, are covered with rubber so that when the cap 5 is held against the end of the said tube E no air can leak in or out through the said hole 2. The said cap 5 acts as a valve for the tube E and the vacuum cup B, and after the dart has been thrown against a smooth surfaced single planed object it will be held there by the vacuum action of the cup B. The valve or cap 5 will prevent air from entering the vacuum cup B through the tube E and provides a convenient means for releasing the suction therein. When the thrower desires to release the suction or vacuum he may pull the cap 5 out of the tube E and the air will enter the hole 2 and will release the vacuum in the cup B. When the operator throws the dart, the tail piece C and wing D will hold the dart on its course and will direct it so that the vacuum cup B will strike the target object first and when said cup strikes the object the air will be forced out of the vacuum cup through the tube E and the suction thus created will hold the dart to the objective until the thrower desires to release it. To release the dart the cap 5 is raised from the tube E and air will enter the tube through the hole 2 and will enter the concave side of the vacuum cup B and release the vacuum and the dart may be thrown again.

Having thus described my invention I desire to secure by Letters Patent and claim:—

1. In a dart the combination of a spherical body portion; a tail portion having wings formed on the outer end thereof; a vacuum cup formed on the opposite side of said body from said tail; a tube having one end flanged and passed centrally through said tail, body and vacuum cup; a spring secured in the end

of said tube and a valve to close the end of said tube attached to said spring and held normally closed by said spring.

2. A game device, comprising a body portion; an integral tail portion; spaced apart fins on the free end of said tail; a vacuum cup integral with said body; a longitudinal tube carried in said body, tail and wing portions and opening to the interior of said vacuum cup; and means to regulate the passage of air through said tube.

In testimony whereof I have affixed my signature.

NOBLE E. SAMSEL.