Nov. 7, 1939. P. V. FABIONAR 2,179,404

ROCKET PROJECTILE

Filed Feb. 14, 1939

Fig. 1.

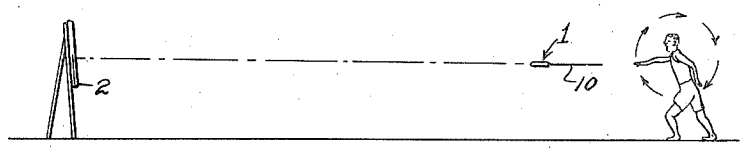


Fig. 2.

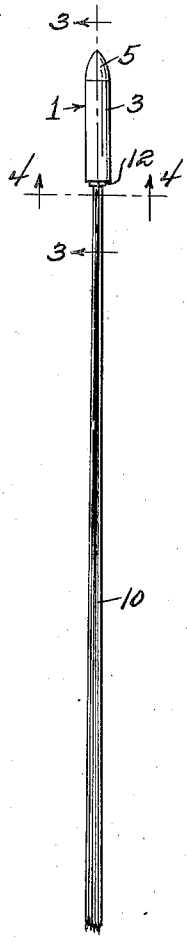


Fig. 3.

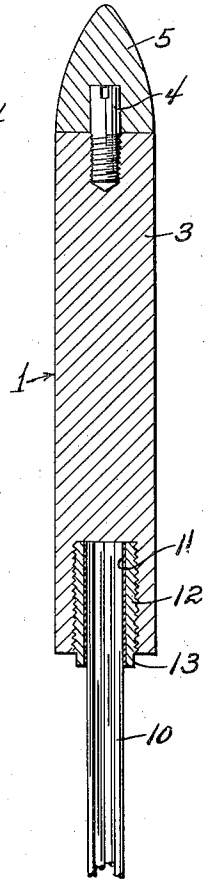


Fig. 4.

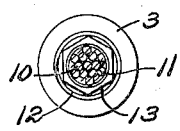


Fig. 5.



Fig. 7.



Fig. 6.



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ROCKET PROJECTILE

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Application February 14, 1939, Serial No. 256,353

1 Claim. (Cl. 273—106)

This invention relates to games of the type that include a target and a projectile to be thrown toward the same, and its general object is to provide an improved projectile in the form of a rocket which can be thrown with utmost accuracy, after minimum practice, in that it is properly balanced, as well as stabilized in flight by a particular type of flexible tail or stabilizer which also acts as a handle and provides a positive gripping surface which materially facilitates the accuracy of the throw.

A further object is to provide a projectile in the form of a rocket, that includes various types of tips interchangeable with the head, and the tail is detachably secured to the head so that it can be readily replaced in the event of damage thereto, yet casual removal or displacement is practically impossible.

Another object is to provide a projectile which due to the easy manner of handling and throwing the same, together with the stabilizing feature thereof in flight, makes it possible for a novice to skillfully and accurately throw the same after minimum practice, with the result the throwing of my projectile can be enjoyed by both children and adults and creates much amusement and fun, as well as produces a certain amount of exercise.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawing and specifically pointed out in the appended claim.

In describing the invention in detail, reference will be had to the accompanying drawing wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a view illustrating one manner of throwing my projectile toward a target.

Figure 2 is a view of the projectile per se.

Figure 3 is a sectional view taken approximately on line 3—3 of Figure 2, looking in the direction of the arrows.

Figure 4 is a sectional view taken approximately on line 4—4 of Figure 2, looking in the direction of the arrows.

Figures 5, 6 and 7 are views partly in section of several of the tips for my projectile.

Referring to the drawing in detail, and particularly to Figure 1, it will be noted that I have illustrated a player throwing my projectile 1 toward a target 2 in a certain manner, that is the projectile is preferably gripped by the stabilizer or tail thereof, thence is swung or twirled in a circular motion, as indicated by the arrows, and then released when pointed toward the target. However, the projectile can be gripped and thrown in any manner desired, but the manner referred to not only makes it possible to make accurate hits on the target with the player standing a relatively great distance therefrom but produces a maximum amount of exercise for the player, as will be apparent.

While a certain type of target is shown, I want it understood that the target may be of any type, and that the projectile can be used as a weapon of defense or for hunting animals or other game.

Now referring to Figures 1 to 7 inclusive it will be noted that my projectile includes a relatively narrow cylindrical body 3 providing the head thereof and which may be made from any material suitable for the purpose, such as metal, wood or composition. The ends of the head are flat and extending centrally in the inner end thereof is a relatively wide threaded bore for detachably securing the tail or stabilizer of my projectile to the head, as best shown in Figure 3, while the opposite or outer end of the head has extending centrally therein a relatively narrow threaded bore, with a kerfed screw bolt 4 threaded therein to project a considerable distance therefrom for mounting the various tips of the head thereon, as will be apparent upon inspection of Figure 3.

I have illustrated four different types of tips for use with my projectile, each having a flat inner face engageable with the outer end of the head, and each tip is provided with a bore for receiving the extending end of the screw bolt therein, for frictionally fitting the same. However, the screw bolt may be further threaded for threadedly securing the tips thereto.

The tip shown mounted on the head in Figure 3 is indicated by the reference numeral 5, and is of convexed conical formation as well as provided with a blunt outer or target receiving end, but the tip 6 of Figure 5 is of concaved conical formation and terminates at its outer end into a sharp or needle penetrating point, while the tip 7 of Figure 7 is relatively flat, and is shown as being of substantially dome like formation. The tips 5 and 7 are preferably made from any suitable hard material, such as hard rubber, composition or the like but the tip 6 is made from steel so that it will readily penetrate the target as will be apparent. The tip 8 of Figure 6 is made from soft rubber to provide a suction cup 9 so that it will stick or adhere to the target.

The stabilizer or tail of my projectile is of

utmost importance and includes a plurality of relatively long tapered fiber like strands 10 of various lengths preferably made from the stems of cocoanut palm leaves but they may be made from any material suitable for the purpose, and are held in bundle formation with the large ends thereof flush with each other, by a strip 11 of metal foil wrapped about and adhesively secured to the large ends which are also adhesively secured together so that the remaining portions of the strands are free and outwardly flared from their secured ends.

The secured ends of the strands 10 are mounted and adhesively secured in an exteriorly threaded sleeve 12 which is threaded in the large bore at the inner end of the head, as shown in Figure 3, and the sleeve is formed with a square cornered end portion 13 to receive a wrench or the like to facilitate the application and removal thereof with respect to the head. In order to prevent casual unthreading of the sleeve from the head, I preferably coat the threads of the sleeve with adhesive material before the tail is applied.

From the above description and disclosure of the drawing, it will be obvious that my projectile can be easily handled and thrown by the use of its tail, which due to the particular structure thereof will properly stabilize the projectile in flight and hold the same on the course in which it is aimed thereby enabling the player to make accurate hits at relatively great distances from the target.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claim.

What I claim is:

In a projectile including an elongated cylindrical head having a target receiving tip at the forward end thereof, said head being provided with a relatively wide bore extending longitudinally therein from its rear end and the bore being threaded throughout its length, and a tail comprising a plurality of relatively long flexible tapered strands formed from fibrous material and having their large ends terminating flush with each other and adhesively secured together for the disposal of the strands in bundle formation, the remaining portions of the strands being free, a flexible strip wrapped about the large ends and adhesively secured thereto, an exteriorly threaded sleeve having the wrapped ends of the strands secured therein, and said sleeve being threadedly secured within the bore and having a square cornered end portion to receive a tool to facilitate the application and removal of the tail with respect to the head.

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