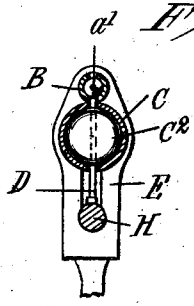
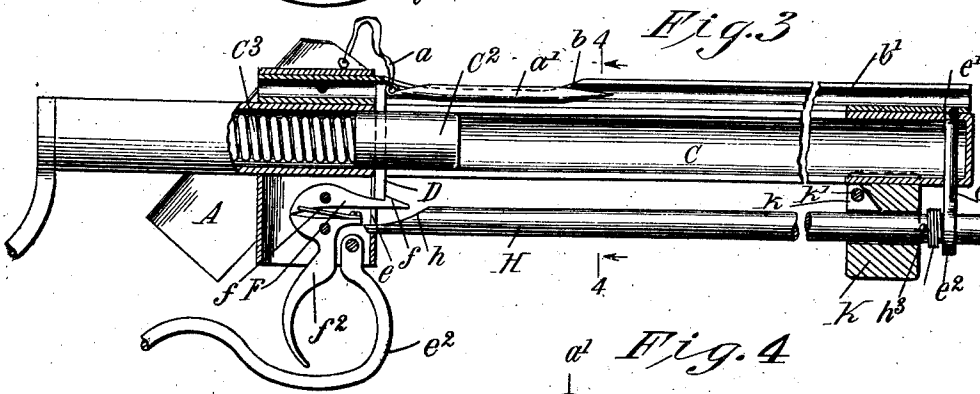
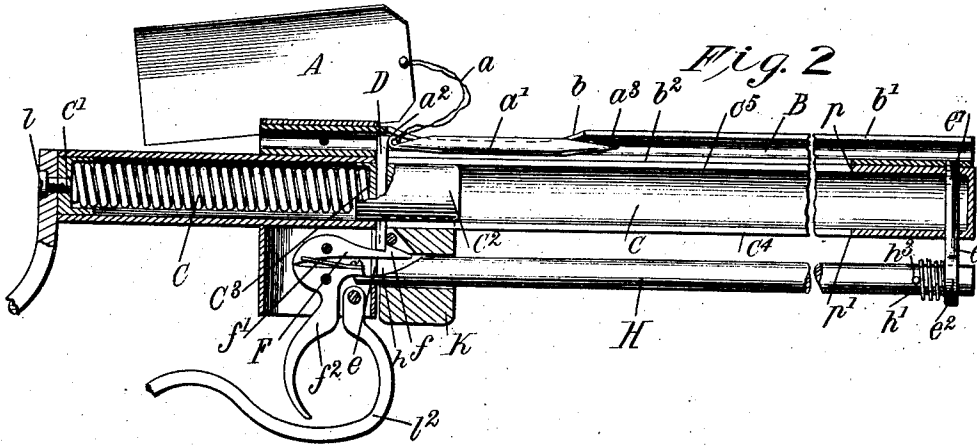
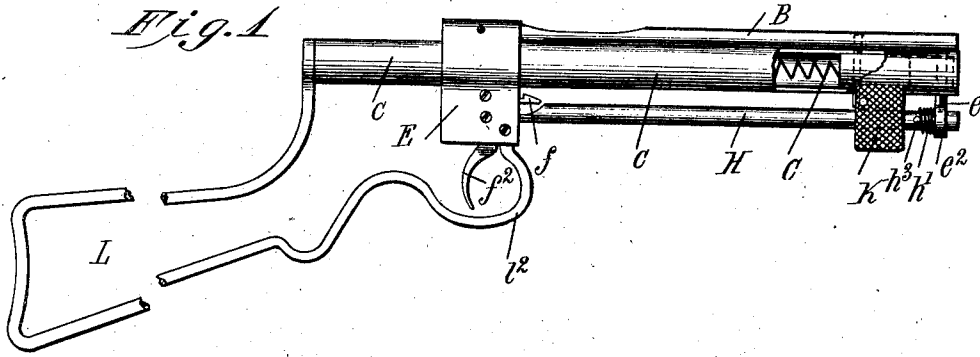


A. J. CLARK.
ADVERTISING DEVICE.
APPLICATION FILED JULY 7, 1911.

1,016,212.

Patented Jan. 30, 1912.



WITNESSES

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UNITED STATES PATENT OFFICE.

ANDREW J. CLARK, OF DAYTON, TENNESSEE.

ADVERTISING DEVICE.

1,016,212.

Specification of Letters Patent.

Patented Jan. 30, 1912.

Application filed July 7, 1911. Serial No. 637,293.

To all whom it may concern:

Be it known that I, ANDREW J. CLARK, a citizen of the United States, and a resident of Dayton, in the county of Rhea and State of Tennessee, have invented certain new and useful Improvements in Advertising Devices, of which the following is a full, clear, and exact description.

The object of my invention is to provide an advertising tag or card having means by which it may be attached to posts, trees and other parts, in such a manner that it may swing and sway in the wind, and to provide means whereby such advertising card or tag may be affixed at points beyond the reach of the hands, and, in fact, at points which may be deemed to be entirely inaccessible. This object is secured by providing the advertising tag or card with a pointed projectile, to which it is attached by a flexible connection, and by providing a suitable gun by which the projectile and its attached card or tag may be carried through the air with a force sufficient to cause the projectile to enter the post, tree or other part, leaving the advertising card or tag swaying by its flexible connection.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 shows in side elevation the gun for attaching the advertising card, having the stock broken for convenience of illustration, and with a portion of the spring barrel broken away; Fig. 2 is a partial longitudinal sectional view, certain parts being shown in elevation, and showing the projectile with its attached card or tag in the barrel of the gun with the parts in position for ejecting the projectile from the barrel; Fig. 3 is a similar view to Fig. 2 with the safety device removed from engagement with the trigger just prior to firing; and Fig. 4 is a vertical section taken on the line 4—4 in Fig. 3.

The advertising device comprises a card or tag A, upon which may be printed any suitable advertisement or legend, a flexible cord *a* and a projectile *a'*, the cord being connected at one end to the card or tag A, and at its opposite end to an eye *a²* formed at one end of the projectile *a'*. The projectile *a'* is formed of any suitable wire, preferably cylindrical in cross section and of suitable length and weight to cause it to

travel through the air under the force of the ejecting mechanism of the gun, and its forward end is sharply pointed as shown at *a³*.

For the purpose of attaching the card or tag to a post, tree or other part, I have provided a gun comprising a projectile barrel B having an opening *b* near its rear end to permit the insertion of the projectile *a'* within the barrel B, and which along its upper and top portion is slotted from the opening *b* to the end of the barrel, as indicated at *b'*, the slot permitting the passage of the flexible cord *a* with its attached card or tag as the projectile is forced along and out of the barrel.

Preferably, a spring-ejecting mechanism is employed and comprises a relatively strong helical spring C contained in a barrel *c*, the said barrel being closed at one end by a plug *c'* against which one end of the spring C finds a bearing. Arranged to reciprocate in the barrel *c* is a cylindrical plug *c²* having a seat *c³* at its rear end which receives the forward end of the spring C, and under the action of the spring C the plug *c²* is forced along the barrel *c*. The plug *c²* carries a vertically-extending post D which projects above and below the plug *c²*, as shown clearly in Figs. 2 and 3 of the drawings, and which passes through and is guided by slots *c⁴*, *c⁵* formed in the barrel *c* at diametrically opposite points, and also the upper end of the post D passes into and through a slot *b²* in the under side of the barrel B diametrically opposite the slot *b'* in said barrel. The slots *b²*, *c⁴* and *c⁵* do not extend the full length of the barrels but terminate at the points *p* and *p'*, thus forming a stop against which the post D comes to rest in its forward movement under the action of the spring C. The barrels B, *c* are assembled as shown in the drawings, the barrel B being directly over the barrel *c*, and they are mounted in a block or head piece E in any convenient or usual manner, and are further held together by means of the shank *e*, the threaded end *e'* of which engages threaded apertures in the adjacent parts of the respective barrels (see Figs. 2 and 3). Mounted in the block or head piece E is a pivoted dog F having a beveled and shouldered end *f* arranged to engage the lower end of the post D when the block *c²* is drawn back and to retain the block and the post D in the position shown in Fig. 2

and against the tension of the spring C until it is desired to fire the projectile from the barrel of the gun. This dog F is normally held in a position to engage the lower end of the post D by means of a leaf spring f' mounted upon the upper end of a pivoted trigger f^2 , which trigger with its rear end engages the rear end of the dog F. The arrangement is such that the spring f' normally holds the dog F in position to engage the lower end of the post D, but upon a pull of the trigger f^2 rearward the dog F will be depressed at its forward end to release the post D.

In order to prevent the premature and accidental discharge of the projectile from the gun, I have provided a safety device which, as shown, comprises a cylindrical rod H arranged beneath and parallel to the barrel c , and which at its outer end has a sliding bearing in the head e^2 of the shank e . The rod H is intended to have a limited sliding movement in its bearing, and at its rear end it is beveled as shown at h and projects within a slot or opening e of the head block E and beneath the forward end of the trigger f^2 , as shown in Fig. 2 of the drawings. In the position shown in Fig. 2 the trigger f^2 cannot be drawn back to release the post D, but in the position shown in Fig. 3, the safety device H has been moved toward the forward end of the gun so that the trigger may be operated to release the post D and to fire the gun. The safety device H is intended to be automatically thrown to the safety position shown in Fig. 2 and this is accomplished by means of a light spiral spring h' surrounding said rod between the bearing h^2 and a pin h^3 on said rod. For the purpose of drawing back the block c^2 against the tension of the spring C to "set" the gun, I have provided a hand grip K, which is arranged to slide along the safety rod H, and which has a recess k at its upper rear face in which is a pin k' , which, as the hand grip is drawn rearwardly, engages the post D and forces the plug c^2 backward against the tension of the spring C.

The gun is provided with a suitable stock L, which may be made of wire, as shown in the drawings, and one end of which is connected to the end of the barrel c by a screw l and the other end curved beneath the trigger f^2 to form a guard l^2 and connected to the head piece E in advance of the trigger.

In operation, assuming that the gun has been discharged, it is set for firing by drawing back the hand grip K, thus moving backward the block c^2 against the tension of the spring C to the position shown in Fig. 2, and causing the pivoted dog F to engage the lower end of the post D. Thereafter the hand grip K may be moved to any position along the safety rod H which may be

desired. The safety rod H is moved toward the left as shown in Fig. 2 by means of its spring h' so that its rear beveled end h engages beneath the forward end of the trigger f^2 . Thereafter the projectile a' is inserted into the barrel B through the opening b , the card or tag A hanging outside.

In firing the gun, the hand grip K is moved forward until it engages the pin h^3 , and a further forward movement of the hand grip K compresses the spring h' and moves the beveled end of the safety rod H from beneath the trigger. The trigger may then be pulled rearwardly depressing the forward end of the pivoted dog F, and permitting the spring C to propel the block c^2 along its barrel c and causing the upper end of the post D to forcibly eject the projectile a' from the barrel B. During this ejection of the projectile the cord a slides along the slot b' , and emerging at the end thereof under the impetus imparted to the projectile, the card or tag A will be carried through the air acting somewhat like the tail of a kite or the feather of an arrow, until the projectile reaches and embeds itself in the mark at which it was fired. Thus the card or tag will be attached to the mark, such as a post, tree, barn or other part, where it may be observed by the passers-by, and because of its flexible connection it may have movement under the action of the wind, attracting the attention of the passers-by.

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

1. An advertising device, comprising a pointed projectile, a card or tag, a flexible connection between said projectile and the card or tag, a gun for discharging said projectile and its attached card or tag, said gun having a slotted barrel to permit the card or tag and its attachment to the projectile to pass along outside of the gun while the projectile passes through the barrel, a spring barrel below the projectile barrel, a plunger movable in said spring barrel, and a post carried by said plunger, said post projecting into the projectile barrel and engaging the projectile therein.

2. An advertising device, comprising a card or tag and a projectile, a flexible connection between the card or tag and the projectile, a gun provided with a barrel having an opening to admit the projectile therein, a slot leading from the opening to the end of the barrel, a spring barrel located beneath the projectile barrel, a plunger therein projecting into the projectile barrel and extending below the spring barrel, a pivoted dog for engaging the lower end of the plunger, a trigger for operating said dog, a spring for forcing the plunger along the spring

barrel, a hand grip sliding along beneath the spring barrel and arranged to move the plunger toward the pivoted dog, and a safety device for the trigger.

- 5 3. A gun for use in attaching advertising cards or tags, comprising a projectile barrel having an opening to receive the projectile, and a slot leading from said opening to the end of the barrel, a spring barrel
10 located beneath the projectile barrel and slotted along its upper and lower surfaces, a registering slot in the projectile barrel, a spring in the spring barrel, a plunger acted upon by the spring and projecting into the
15 projectile barrel and below the spring barrel, a pivoted dog arranged to engage the lower end of the plunger, a trigger for re-

leasing the dog, a sliding safety rod beneath the spring barrel arranged to engage the trigger, a spring normally holding the 20 safety rod in engagement with the trigger, and a sliding hand grip adapted to move along the safety rod for the purpose of moving the plunger along the spring barrel and set the spring and to remove the safety rod 25 from engagement with the trigger.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ANDREW J. CLARK.

Witnesses:

DAVID G. PILE,

W. A. SHERMAN.