S. J. HIBON.

DETONATING DEVICE.

APPLICATION FILED JUNE 18, 1912.

1,068,431.

Patented July 29, 1913.

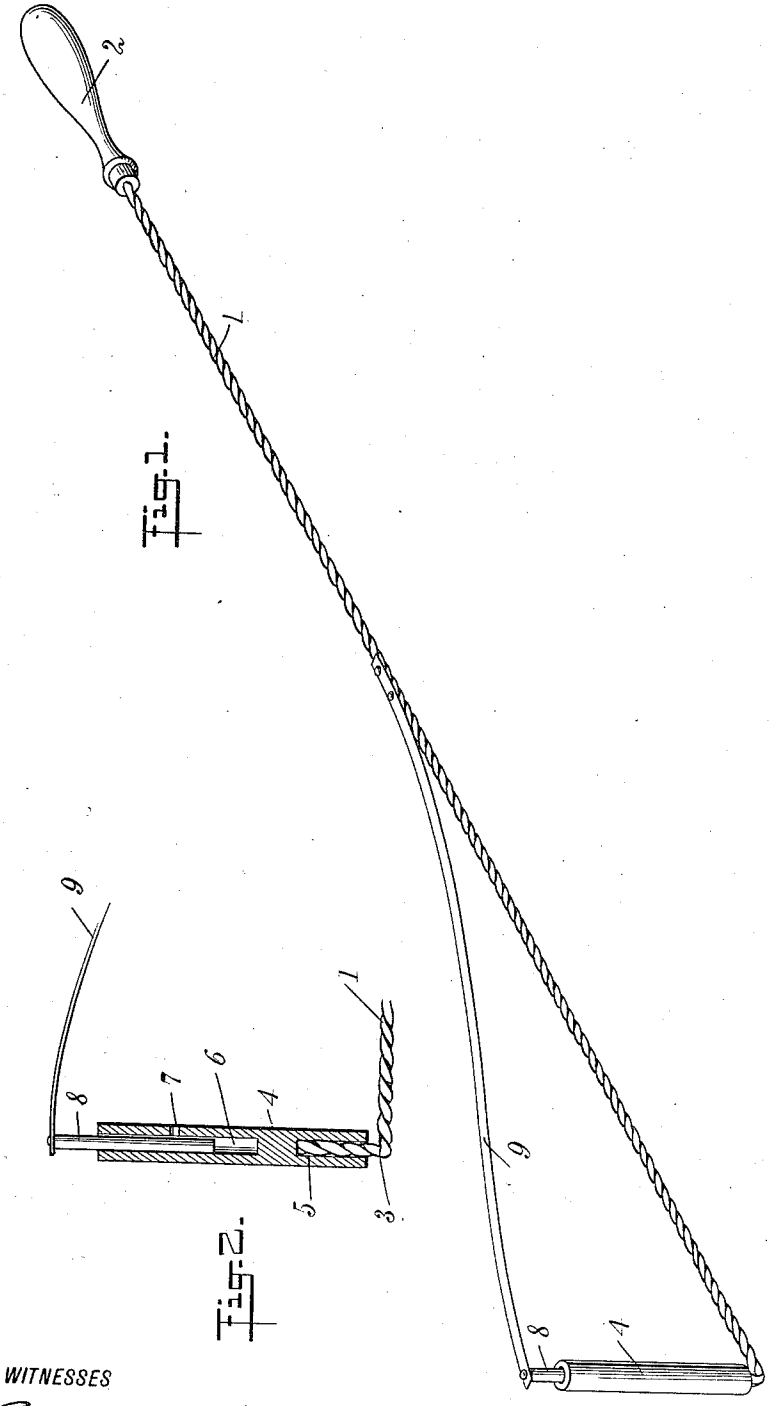


Fig. 1.

Fig. 2.

WITNESSES

Wm. F. Nickel

INVENTOR

Sidney J. Hibon

BY Munn & Co

ATTORNEYS

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

SIDNEY JOHN HIBON, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO ASHER KLEINMAN, OF NEW YORK, N. Y.

DETONATING DEVICE.

1,068,431. Specification of Letters Patent. **Patented July 29, 1913.**

Application filed June 18, 1912. Serial No. 704,311.

To all whom it may concern:

Be it known that I, SIDNEY J. HIBON, a subject of the King of Great Britain, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Detonating Device, of which the following is a full, clear, and exact description.

My invention relates to improvements in detonating devices for amusement purposes, and it has for its object to provide a construction of this sort in which all danger in the use thereof is eliminated.

Reference is to be had to the accompanying drawings forming a part of this specification, in which the same characters of reference indicate the same parts in all the views.

Figure 1 is a perspective view of one form of my invention; and Fig. 2 is a longitudinal construction of the operating end of the same.

On the drawings my detonating device comprises a rod 1 which is shown as made of twisted wire but obviously any other construction will answer. This rod 1 has a handle 2, and a bent end 3, and on this bent end is slipped a hollow bar 4 having a bore 5, which receives the bent end 3 and forms a snug fit therewith, so that the bar 4 and the handle 3 will hold together. From the other end of the bar 4 extends a bore 6; and 7 is an aperture leading through the side of the bar into the bore. 8 is the detonating plunger which enters the bore 6, and 9 is a leaf spring secured to the outer end of the plunger 8 at one end and to the bar 1 at the other end. Normally the set of the spring is such that the plunger 8 will be retained in the bore 6 with its inner end spaced from the inner end of the bore 6 a distance less than the length of the bore 5, so that the parts will be prevented from getting separated and lost.

In operation, any convenient explosive, such as a safety cap, or even the head of an ordinary safety match, can be inserted into the bore 6, the plunger 8 being pulled out against the tension of the spring 9, for this purpose. The end of the plunger 8 is then re-inserted into the bore or cavity 6 behind the cap; and to cause an explosion the device is grasped by the handle 2, and the user strikes it smartly against anv fixed object. In so doing he may cause either the bar 1 at the point where it is bent as shown at 3, or the outer end of the plunger 8, to receive a direct impact, and in either case the shock will be sufficient to cause the plunger 8 to strike the explosive hard enough to detonate the same. The explosion will drive the plunger 8 out a slight distance, but only far enough to uncover the aperture 7 through which the gases will escape.

I prefer to use safety caps so that, if these caps are dropped anywhere and walked upon, no accidents will result. The device can be used for amusement purposes or as an alarm device instead of a firearm in case some one should find it necessary to summon help in the night-time.

From the above description it will be seen that I have provided a very simple detonating device which can be easily and cheaply made, and I have found that a very loud report can be produced with my construction without the necessity of using any dangerous explosives.

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

1. In a detonating device, the combination of a rod having a handle, said rod having a bent end, a hollow bar having a bore receiving said bent end, said bar having a second bore therein, an aperture leading through the side of the bar to the said second bore, a plunger received in the second bore of said bar, and a spring connecting said plunger to said rod, said spring holding the inner end of the plunger spaced from the inner end of the said second bore.

2. The combination of a rod having a handle and having its outer end bent over, a hollow bar having a bore receiving said outer end, said bar having a second bore therein, an aperture leading through the side of the bar into said second

bore, a plunger received in said second bore of said bar, and a leaf spring connecting said plunger to said rod, said spring holding the plunger spaced from the inner end of said second bore a distance less than the length of the first bore in said bar.

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

SIDNEY JOHN HIBON.

Witnesses:
ASHER KLEINMAN,
LAURETTE M. HENRY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."