(No Model.) 2 Sheets—Sheet 1.

C. SWAN.

APPARATUS FOR SPRINGING TARGET TRAPS.

No. 424,835. Patented Apr. 1, 1890.

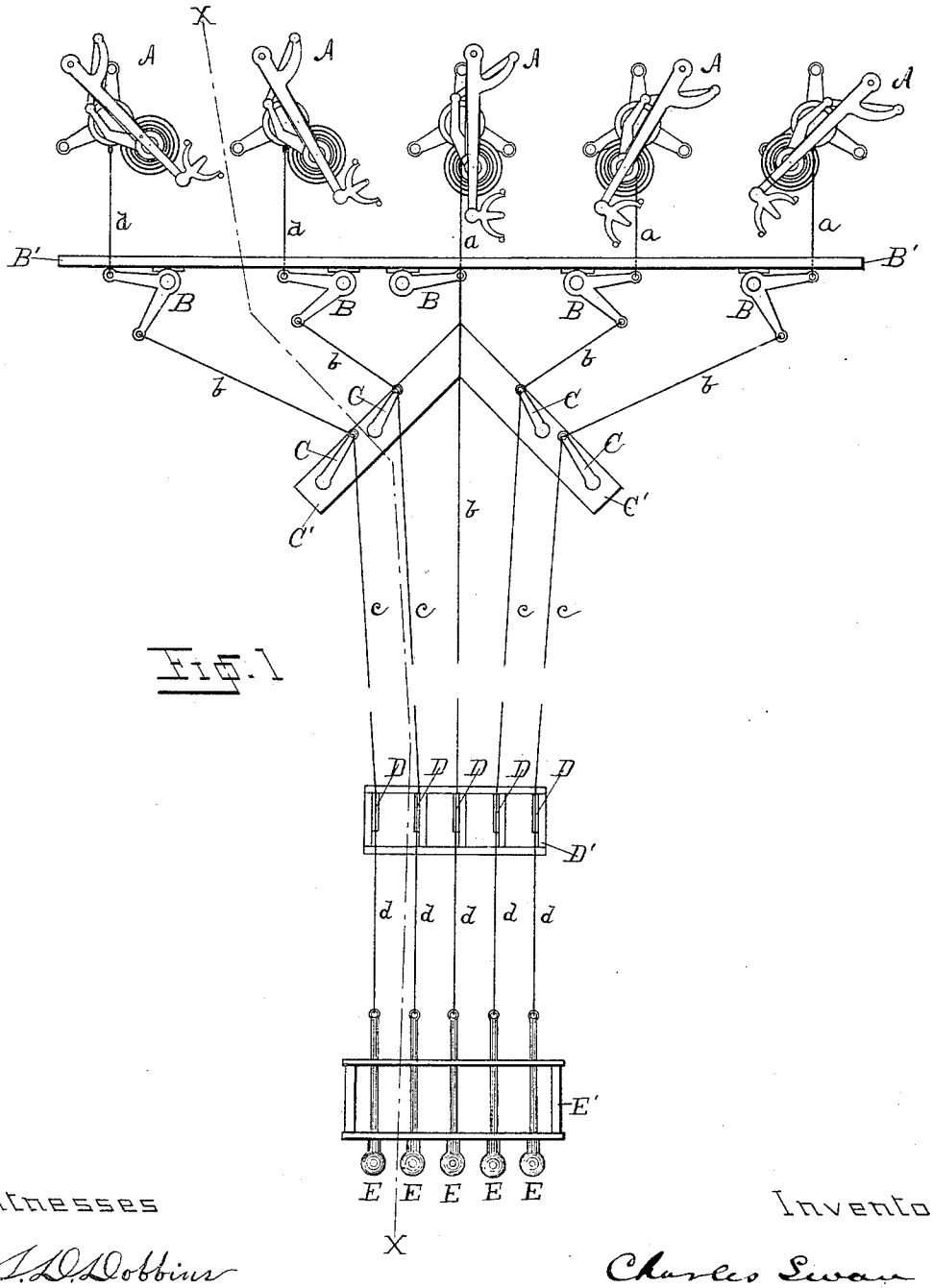


Fig. 1.

Witnesses

A. D. Dobbins

Henry C. Fish

Inventor

Charles Swan

By His Atty's. Hallock & Hallock

N. PETERS. Photo-Lithographer, Washington, D. C.

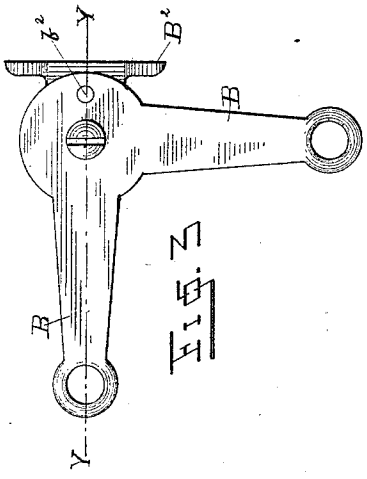
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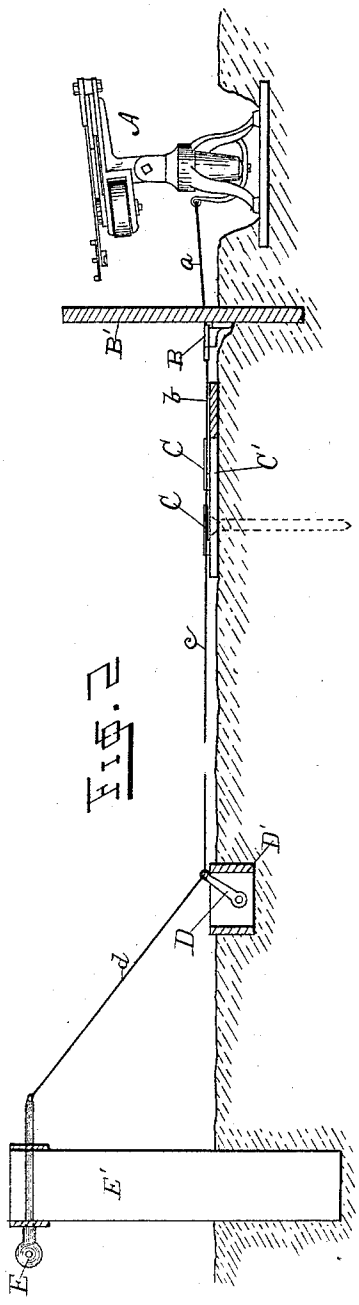
C. SWAN.

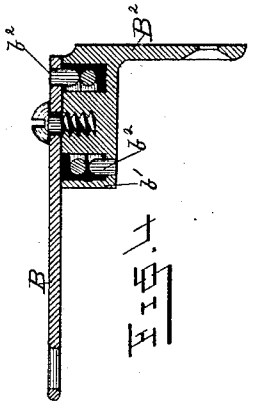
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Witnesses

J. D. Dobbins

Harry C. Fish

Inventor

Charles Swan

By His Attys Mallock & Mallock

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

CHARLES SWAN, OF CORRY, PENNSYLVANIA.

APPARATUS FOR SPRINGING TARGET-TRAPS.

SPECIFICATION forming part of Letters Patent No. 424,835, dated April 1, 1890.

Application filed November 4, 1889. Serial No. 329,165. (No model.)

To all whom it may concern:

Be it known that I, CHARLES SWAN, a citizen of the United States, residing at Corry, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Apparatus for Springing Target-Traps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to means for springing a series of target-traps by the operation of keys or pulls placed at a distance from the traps; and it consists in certain improvements in the construction thereof, as will be hereinafter fully set forth, and pointed out in the claims.

My invention is illustrated in the accompanying drawings as follows:

Figure 1 is a plan view of a series of target-traps and my apparatus for springing the same. Fig. 2 is a vertical longitudinal section taken on the line *x x* in Fig. 1. Fig. 3 is a top view of one of the bell-crank levers used in the apparatus. Fig. 4 is a vertical section of the part shown in Fig. 3, taken in the line *y y* in said figure. Fig. 5 is a top view of the bracket forming part of the part shown in Fig. 3, the lever B having been removed.

Like letters of reference indicate corresponding parts in all the figures.

The construction and arrangement are as follows:

A series of five traps A are arranged in a row, and a battlement B′ is placed so as to screen the setter. Wires *a a a a a*, connected with the triggers of the traps, pass through the battlement-board B′ and attach to one of the arms of bell-crank levers B, secured to the said battlement-board. These levers B are pivoted to brackets B^2, which are secured to the board B′. These brackets B^2 have a barrel *b*′, which contains a coiled spring b^2, which gives tension to the levers B, the object of which is to secure reaction of the parts after being drawn in opposition to the springs. The middle lever of the five does not require to be a bell-crank in form, and is shown in the drawings as having but one arm; but it is provided with a spring the same as the others.

In front of the battlement-board there is a frame-piece C′, secured to the earth, and on this are four pivoted levers C, two on each side of the middle. Wires *b* connect the levers C with the outer arms of the bell-cranks B. The levers C are pivoted so as to swing horizontally, the same as the bell-cranks. Near the operator's stand E′, between it and the frame-piece C′, is a lever-box D′, in which are pivoted five levers D, so as to swing vertically, and wires *c* connect four of these with the levers C, and a wire *b* connects the central one of the five with central lever B on the battlement-board.

On the operator's stand E′ are pulls E, which are connected by wires *d* with the levers D. I use wires in place of cords, so there will be no change of length in wet or dry weather.

The springs on the levers B hold all the wires taut except the trigger-wires *a*, and they are held taut by the trigger-levers of the traps.

The five traps are so placed that each trap will throw its target in a different direction. The operator stands in front of the pulls E, and the marksman stands near him, but not in view of the pulls, and the operator pulls one after another of the pulls in arbitrary order, and thus springs first one trap and then another at his own election.

I am aware that it is not new to operate a series of traps from a single operator's stand by pulling a series of cords, and I do not, therefore, broadly claim that feature.

What I claim as new is—

1. In an apparatus for springing target-traps, the combination, with a series of traps, of a series of spring-levers B, arranged on the battlement-board B′ in front of said traps and connected with the trigger cords or wires *a*, and a series of pulls E, connected by wires with the said spring-levers B.

2. In an apparatus for springing target-traps, the combination, with a series of traps A and trigger-cords *a*, of the series of spring-levers B, the series of levers C, wires *b*, connecting said levers B and C, the series of levers D, wires *c*, connecting said levers D and C, the series of pulls E, and the wires *d*, connecting said pulls E with the levers D.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES SWAN.

Witnesses:
JNO. K. HALLOCK,
WM. P. HAYES.