

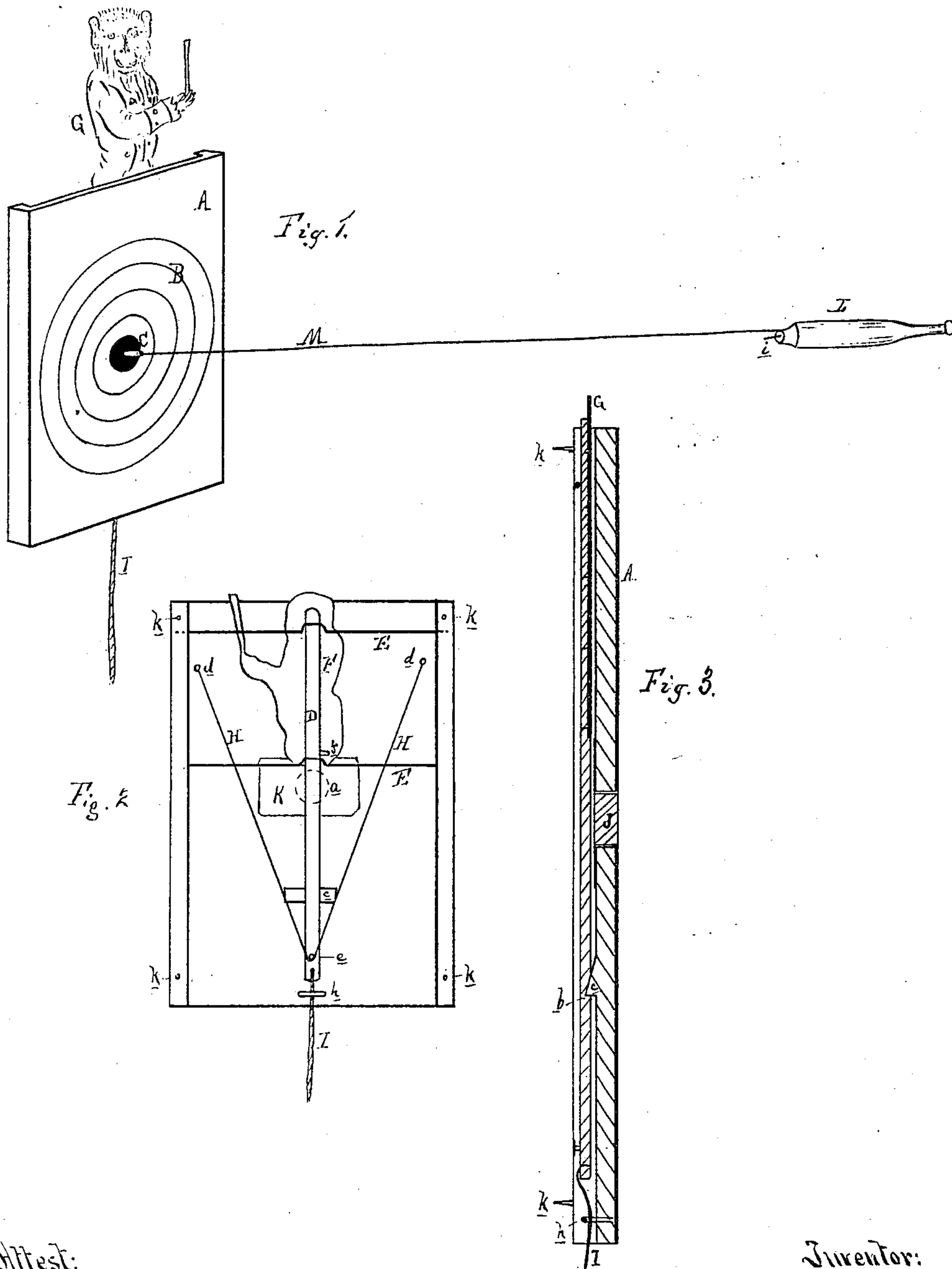
(No Model.)

C. A. CRONGEYER.

MECHANICAL TOY.

No. 271,686.

Patented Feb. 6, 1883.



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UNITED STATES PATENT OFFICE.

CHARLES A. CRONGEYER, OF DETROIT, MICHIGAN, ASSIGNOR TO HIMSELF
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MECHANICAL TOY.

SPECIFICATION forming part of Letters Patent No. 271,686, dated February 6, 1883.

Application filed December 13, 1882. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. CRONGEYER, of Detroit, in the county of Wayne and State of Michigan, have invented new
5 and useful Improvements in Mechanical Toys; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification—

10 The nature of this invention relates to certain new and useful improvements in a mechanical toy; and the invention consists in the peculiar construction and operation of the device and the combination of the parts, as
15 more fully hereinafter described.

Figure 1 is a perspective view of my improved toy. Fig. 2 is a rear elevation. Fig. 3 is a vertical central longitudinal section.

20 In the accompanying drawings, which form a part of this specification, A represents the front of a target provided with the usual representation of rings, B, and bull's-eye C. The center of the target-front is cut out, as shown
25 at *a* in dotted lines in Fig. 2, immediately in rear of the center of the bull's-eye. This target is made small, the front being covered with paper or other material, upon which the rings and bull's-eye are printed or painted.

30 D is a flat bar, having a vertical motion upon the rear face of the target within the rod guides E, and upon or at the top of this bar, and upon the front side thereof, is secured a card, F, upon the front of which is painted
35 or printed any desired image, G. This rod is notched upon its front face, as shown at *b*, to engage with a stop, *c*, which is secured to the rear face of the target proper.

40 H is an elastic cord, the two ends of which are secured at *d* to the rear face of the target-board, and this cord, when engaged with the pin *e* on the rear face of the bar D, will compel the latter, when disengaged from the stop *c*, to shoot upward and disclose the figure thereon, the stop *f* striking against the upper guide-
45 bar E, limiting its motion in that direction. A cord, I, is attached to the lower end of this bar D and passes through the small loop *h*, and by this means the bar D is retracted until the notch therein again engages with the
50 stop C and holds it in position. In the hole *a* there is placed a block, J, which may be of any desired material, fitting loosely in the

hole and retained in place therein by the face-covering of the target, and by pasting or gluing upon the opposite side of the target-board
55 a piece of paper, K.

L is an arrow, preferably of the form shown, although this is not necessary, and its front end is provided with a pin, *i*, centrally located.

60 M is an elastic cord, one end of which is secured to the center of the bull's-eye and to the block J behind the face, while its other end is secured eccentrically to the arrow, as shown. The rear side of the target-board is provided with sharpened pins *k*, by means of which it
65 may be secured by pressing against a wooden wall or fence, and the whole forms a very neat and attractive toy, by means of which the user is learned to sight at an object and to counteract the deflection of the arrow, in which he
70 is somewhat assisted by eccentrically securing the elastic cord to such arrow.

The device being put up for use, the user takes hold of the free end of the arrow, and, drawing it toward him, expands the elasticity
75 of the cord by which it is attached to the target, and, suddenly letting go, (having sighted the bull's-eye,) the arrow, if correctly aimed, will strike the bull's-eye, the impact forcing
80 the block in rear of the bull's-eye sufficiently to the rear to disengage the bar which carries the figure from its stop, when this bar becomes an arrow and shoots upward to its limit, disclosing the figure secured thereto.

85 The front face corners of the device may be ornamented in any desired way, and may be employed in displaying advertising matter.

What I claim as my invention is—

1. A mechanical toy consisting of a target provided with means, as described, for securing
90 it to a board, and with a bar carrying the representation of any desired image, and adapted to spring upward and disclose such image whenever the bull's-eye receives a blow, substantially as described.

2. In combination with a target constructed substantially as described, the arrow connected to the center of the target by an elastic cord eccentrically secured at or near the
95 end of the arrow, substantially as set forth.

CHARLES A. CRONGEYER.

Witnesses:

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E. W. ANDREWS.