No. 819,472. PATENTED MAY 1, 1906.

J. C. A. THOUVEREY.

EXERCISING APPARATUS.

APPLICATION FILED OCT. 31, 1905.

FIG. 1

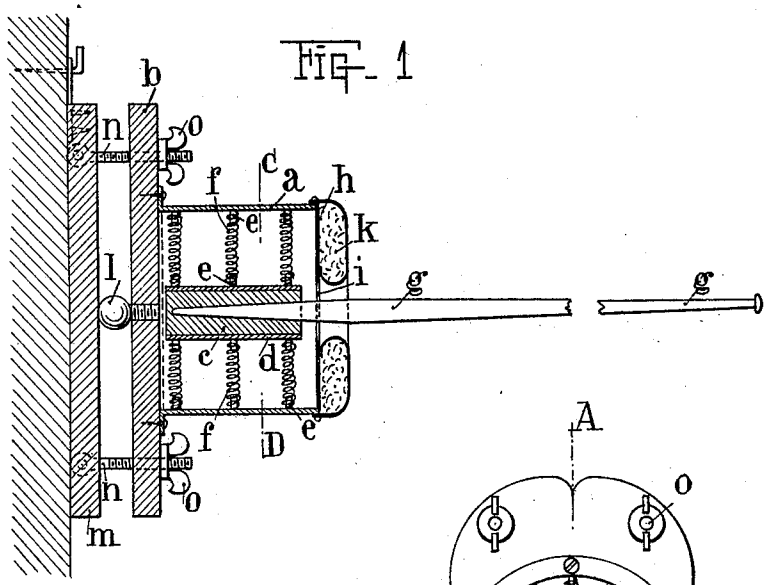


FIG. 2

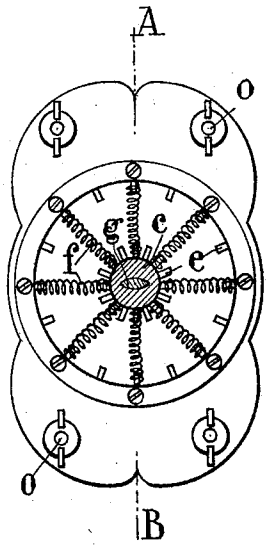
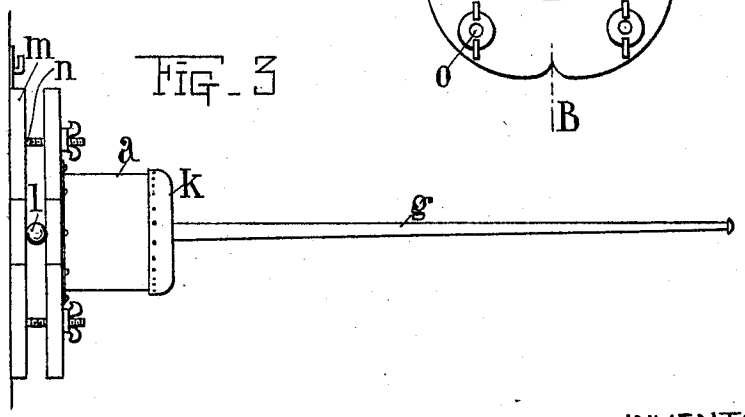


FIG. 3



WITNESSES,

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EXERCISING APPARATUS.

No. 819,472. Specification of Letters Patent. Patented May 1, 1906.

Application filed October 31, 1905. Serial No. 285,316.

To all whom it may concern:

Be it known that I, JEAN CHARLES AUGUSTIN THOUVEREY, a citizen of the Republic of France, and a resident of St. Lô, Manche, France, have invented new and useful Improvements in Exercising Apparatus, of which the following is a specification.

The automatic apparatus which forms the subject of this invention consists of a device by which fencing can be practiced by a fencer alone in any room.

In order to thoroughly comprehend the arrangement and operation of the apparatus, it is illustrated in the accompanying drawings, in which—

Figure 1 is a vertical longitudinal section through the line A B in Fig. 2. Fig. 2 is a front view and section through the line C D in Fig. 1. Fig. 3 is a side view, on a smaller scale, of the entire apparatus.

The apparatus consists of a metal cylinder *a*, fixed upon a plate or board *b*, and a solid wooden cylinder *c*, covered with a thickness of metal *d*.

On the inside of the cylinder *a* and on the outside of the cylinder *c d* are fixed several rows of studs or rivets *e*, (three rows being shown in the drawings,) the studs of one row being placed alternately with regard to those of the neighboring row and those on *a* being in line with those on *c d*, so as to retain between them springs *f*.

The springs being fitted in their places, the cylinder *c* is naturally held centrally in the cylinder *a* and receives a blade or foil *g*, which is firmly fixed in it.

The cylinder *a* is partly closed by a movable cover *h*, which has a central hole *i*, Fig. 1. The remainder of the cover contains a circular cushion *k* in order to deaden the shocks of the blows when the fencer lunges. A ball *l*, screwed to the inside of the back of the board *b*, allows all required inclinations to be given to the foil or blade *g*.

The ball *l* rests against a supporting-board *m*, exactly like that, *b*, already described, and the board *m* is hung on the wall and carries four bolts or studs *n*, passing through the board *b*, which can be adjusted as desired by the winged nuts *o*. In order to allow this adjustment, the joints and the holes for the bolts or studs have sufficient play to allow the board *b* to oscillate on the ball or pivot *l*, and consequently allow the blade *g* to take every position or inclination which the fencer may require, whether vertical, horizontal, or oblique. These different positions allow the fencer to make all the different strokes or movements required in fencing. The resistance to the blade *g* may be varied by varying the number of springs.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

1. In an exercising apparatus, a hollow body, *a;* a padded cover upon said body and leaving an opening thereinto, a movable piece within the body, springs sustaining said piece in desired position within the body, and a foil or blade carried by said piece and projecting outwardly from the body and through the opening left by the padded cover aforesaid.

2. In an exercising apparatus, a hollow box secured upon a base, a padded cover upon said box and leaving an opening thereinto, a movable piece centrally located within the box, springs sustaining said piece in said position, and a foil or blade carried by said piece and projecting outwardly from the body and through the opening left by the padded cover aforesaid.

3. In an exercising apparatus, a box secured upon a base, a padded cover having a central opening therethrough and secured upon the front of the box, a movable piece centrally located within the box, springs between said piece and the inner walls of the box for sustaining said piece in desired position, and a foil or blade carried by said piece and projecting outwardly through the central opening in the padded cover aforesaid.

4. In an exercising apparatus, a base, a foil or blade supporting piece, springs sustaining said piece in place in relation to said base, a second base, and supports comprising a ball or pivot between the bases, and studs or bolts provided with winged nuts for adjustably engaging both bases.

5. In an exercising apparatus, a base, a foil or blade supporting piece, springs sustaining said piece in relation to said base, a second base, a pivotal piece between the bases and secured to one of them, and studs adjustably engaging both bases and provided with locking means.

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

JEAN CHARLES AUGUSTIN THOUVEREY.

Witnesses:
EMILE COUCHOUD,
EDMOND LECOUTURIER.