(No Model.)

J. A. KEMMLER.

EXERCISING MACHINE.

No. 396,938. Patented Jan. 29, 1889.

FIG. 3.

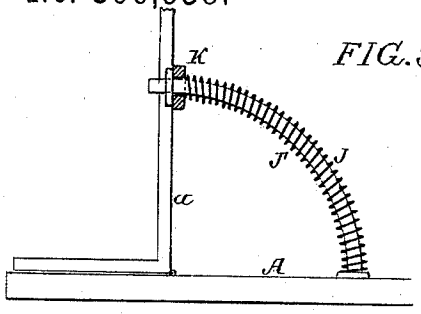
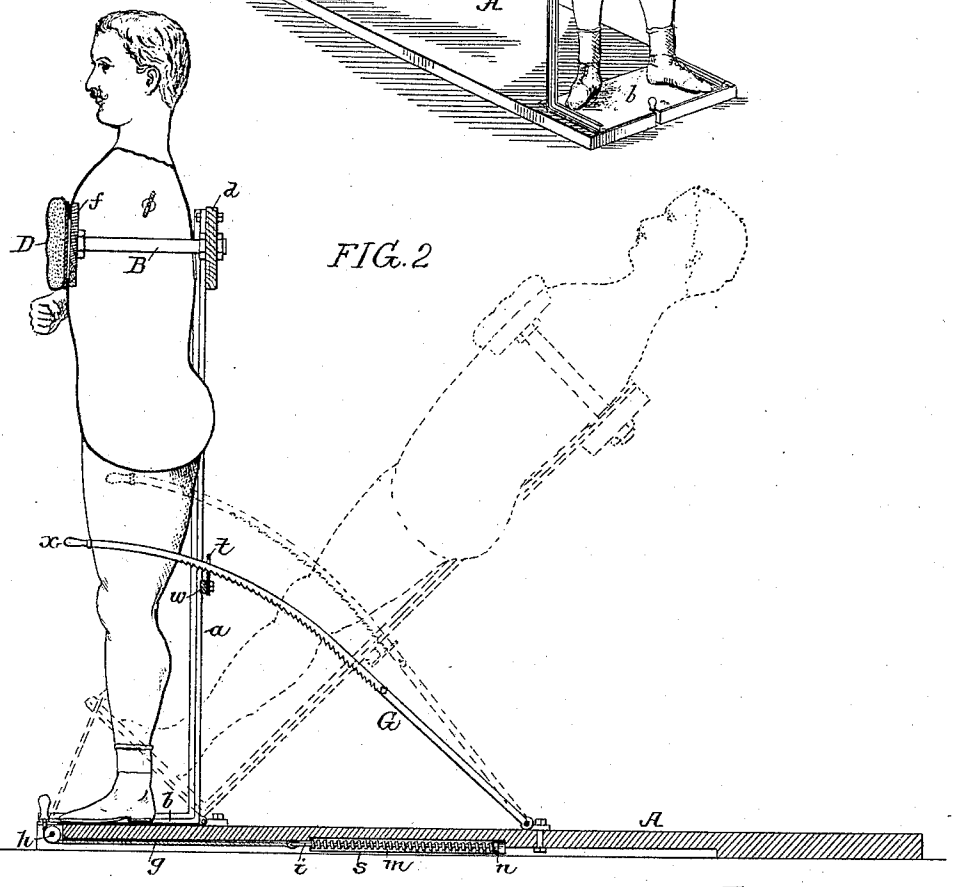


FIG. 1.

FIG. 2.



Witnesses:
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Inventor:
John A. Kemmler,
by his Attorneys
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UNITED STATES PATENT OFFICE.

JOHN A. KEMMLER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO WERNER SOISTMANN, OF SAME PLACE.

EXERCISING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 396,938, dated January 29, 1889.

Application filed April 23, 1888. Serial No. 271,515. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. KEMMLER, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented certain Improvements in Exercising Apparatus, of which the following is a specification.

My invention consists of improvements in that class of exercising apparatus in which a yielding pad is struck by the fist and caused to recede to an extent dependent upon the force of the blow delivered upon it, the object of my invention being to construct an exercising apparatus of this class of a more acceptable character than those which have been heretofore devised. This object I attain in the manner hereinafter set forth, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of an exercising apparatus constructed in accordance with my invention; Fig. 2, a longitudinal section of the same, partly in elevation; and Fig. 3 is a diagram illustrating a modification of part of my invention.

The apparatus comprises the base A, to which, near the front end, is hinged a frame comprising, in the present instance, opposite L-shaped bars *a*, of angle-iron, the bases of which are connected by a plate, *b*, on which is mounted a representation of a human figure, preferably clad in the costume of the prize-ring, this figure being firmly secured to the frame, so that it cannot be dislodged therefrom. The bars *a* carry near their upper ends a transverse bar, *d*, to which is rigidly secured a rod or tube, B, which projects forward in advance of the bar *d* and carries at its front end a disk, *f*, to which is secured a pad, D, the latter occupying such a position that it seemingly rests against the chest of the figure mounted upon the frame. The force of a blow delivered on this pad, therefore, is transmitted through the rod or tube B directly to the transverse bar *d* and to the vertical bars *a* of the hinged frame, no strain whatever being exerted upon the figure, which can thus be made in the form of a leather or papier-maché shell, so as to be extremely light and portable.

To the front portion of the base-plate *b* of the hinged frame is connected one end of a cord or chain, *g*, which passes around a pulley, *h*, in the base A, and is connected at its inner end to the front end of a rod, *i*, contained in a tube, *m*, let into a recess in the under side of the base-board, the rear end of this rod having a collar, *n*, between which and the closed front end of the tube *m* is interposed a spiral spring, *s*, the tendency of which, therefore, is to press the rod *i* rearward and maintain the hinged frame carrying the figure constantly in an upright position. When a blow is struck upon the pad D, however, the force of the spring *s* will be partially overcome, and the hinged frame and the figure carried thereby will be forced rearward to an extent depending upon the force of the blow.

To insure the retention of the hinged frame and the figure in the position to which they have been forced by reason of the blow upon the pad, a detent-arm, G, is hinged to the base A, this arm being in part segmental and having teeth on its under side, and the toothed segmental portion of the arm passing through a slot in a plate, *t*, carried by a transverse bar, *w*, of the hinged frame, so that when the frame and its figure are forced rearward the engagement of the notched or toothed under edge of the detent-bar with the plate *t* will prevent the return of the frame and its figure to the upright position under the influence of the spring *s* until said detent-bar has been lifted, so as to free its toothed under edge from engagement with the plate *t*, the outer end of the detent-bar being provided with a handle, *x*, to facilitate the lifting of the same.

Although I prefer to combine the hinged frame with the draft-cord and spring beneath the base, as described and shown, my invention is not necessarily limited to this construction. For instance, the base may be provided with a segmental guide-arm, J, passing through a transverse bar, K, on the hinged frame and surrounded by a coiled spring, J′, acting upon said transverse bar, as shown, for instance, in Fig. 3, to maintain the hinged frame in the vertical position and to restore it to that position after it has been moved backward therefrom; or the vertical bars of

the frame may possess such inherent elasticity as to tend to assume and retain the upright position.

Having thus described my invention, I claim and desire to secure by Letters Patent—

1. The combination of the base, a yielding frame thereon carrying a representation of a human figure, and a striking-pad connected to said frame, all substantially as specified.

2. The combination of the base, a representation of a human figure mounted thereon, but free to yield in respect thereto, a strike-pad carried by said figure, and a spring acting to maintain the figure in an upright position, substantially as set forth.

3. The combination of the base, the frame pivoted thereto and carrying a representation of a human figure, a spring acting upon said frame and tending to maintain it in the upright position, and a detent-arm engaging with a catch on the frame and serving to retain the latter when thrown back from the upright position, all substantially as specified.

4. The combination of the base, the frame pivoted thereto and carrying a representation of a human figure, a draft cord or chain connected to the frame and passing around a pulley on the base, and a spring acting upon said draft cord or chain, all substantially as specified.

5. The combination of the base, the yielding frame thereon, a representation of a human figure carried by said frame, and a striking-pad occupying a position upon the breast of said figure, but having a rigid connection with the frame, whereby blows upon the pad are transmitted directly to the frame without straining the material of which the figure is composed, all substantially as specified.

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

JOHN A. KEMMLER.

Witnesses:
WILLIAM D. CONNER,
HENRY HOWSON.