G. MÜLLER.
PHYSICAL EXERCISER.
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GEORG MÜLLER, OF BERLIN, GERMANY, ASSIGNOR TO THE FIRM KOLBERGER ANSTALTEN FÜR EXTERIKULTUR WILHELM ANHALT GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, OF KOLBERG, PRUSSIA, GERMANY.

PHYSICAL EXERCISER.

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To all whom it may concern:

Be it known that I, Georg Müller, a subject of the German Emperor, residing at 28 Potsdamerstrasse, Berlin, Germany, have invented certain new and useful Improvements in Physical Exercisers; 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.

same. Physical exercisers are already known in which elastic connections which run through a piece buckled round the shoulder are con-15 nected at one end with stirrups and at the other end with handles, the elastic cords, if so desired, being also connected with a cap enable this to be done, the elastic cord be-20 tween the foot and the hand must be so long that if the cap be omitted it offers no appreciable resistance. Moreover, this may cause an injurious pressure on the chest and the lungs. Again, with such apparatus all kinds 25 of exercises cannot be performed. Exercises in knee-bending in the lunging-out position or in a sitting posture are impossible, there being no resistance. Likewise, no resistance is presented in raising the legs for-30 ward, backward, or sidewise, as in all these exercises the strength of the elastic strand is diminished, as when such exercises are performed the ends of the strand are brought nearer together, the strands being adjusted 35 in their shortest line of connection. Finally, it is also impossible to compensate the gradual lengthening of the strand which occurs when the exerciser is used or to increase the work correspondingly to the strengthening of 40 the muscles without introducing fresh strands. All these disadvantages are obviated by means of this invention, which is suitable for

According to the present invention a belt is put round the loins. The belt is provided with guides for the elastic strands connecting the handles and the stirrups. In addition an adjustable buckling strap is provided by means of which the lengthening of the strands.

all free gymnastic exercises and does not in-

in the course of use can be compensated. An increase in the work corresponding to the strengthening of the muscles can be effected very easily with the apparatus.

Figure 1 represents the apparatus before 55

use, and Fig. 2 the same in use.

by 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.

Physical exercisers are already known in which elastic connections which run through a piece buckled round the shoulder are connected at one end with stirrups and at the other end with handles, the elastic cords, if so desired, being also connected with a cap worn by the person exercising. In order to enable this to be done, the elastic cord between the foot and the hand must be so long

On a belt a, which can be narrowed or widened in front and at the back, so as to serve for different persons, rings b are provided, through which elastic bands or cords a are passed. The upper ends of these elastic bands a carry snap-hooks a, which are suspended in swivels a, fixed to the handles a, which end at the back, so as to serve for different persons, rings a are provided, through which elastic bands or cords a are passed. The upper ends of these elastic bands a carry snap-hooks a, which are suspended in swivels a, fixed to the handles a, which can be narrowed or widened in front and at the back, so as to serve for different persons, rings a are provided, through which elastic bands or cords a are passed. The upper ends of these elastic bands or cords a are provided, through which elastic bands or cords a are provided, through which elastic bands or cords a are provided, through which elastic bands or cords a are provided, through which elastic bands or cords a are provided, through which elastic bands or cords a are provided, through which elastic bands or cords a are provided, through which elastic bands or cords a are provided, through which elastic bands or cords a are provided, through which elastic bands or cords a are attached by means of rings a

A considerable advantage in the described apparatus is that the gymnast may put it on and allow the cords to hang from the belt

while he is performing other work.

The person using the exerciser can increase 75 at will the resistance to be overcome by tightening the buckling piece f, as well as by inserting further elastic strands adjoining each other in the known manner. The snaphooks greatly facilitate the insertion of such 80 strands e.

What I claim, and desire to secure by Let-

ters Patent, is—

1. An exercising apparatus comprising elastic bands or cords, each provided at one 85 end with a handle and at the other end with a foot attachment or stirrup, and a waist-belt adjustable at the front and back and provided with guide-rings for the elastic bands fixed on opposite sides of its front ends.

2. An exercising apparatus consisting of elastic bands, each provided at one end with a handle and at the other end with a foot attachment or stirrup, a waist-belt provided with means for taking in and letting 95 out the same at the front and back, loops fixed to opposite ends of said waist-belt near the front thereof, and guide-rings carried by said loops.

3. An exercising apparatus comprising 100

elastic bands, foot-stirrups, means for adjusting said bands to said stirrups, handles upon the upper ends of said elastic bands, and a waist-belt provided with fixed means 5 through which the elastic bands pass freely and adjusting means for said belt at the front and back thereof to provide for varying the size of the belt without changing the

position of the guide-rings relatively to the body of the user.

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

GEORG MÜLLER.

Witnesses:

WOLDEMAR HAUPT, HENRY HASPER.