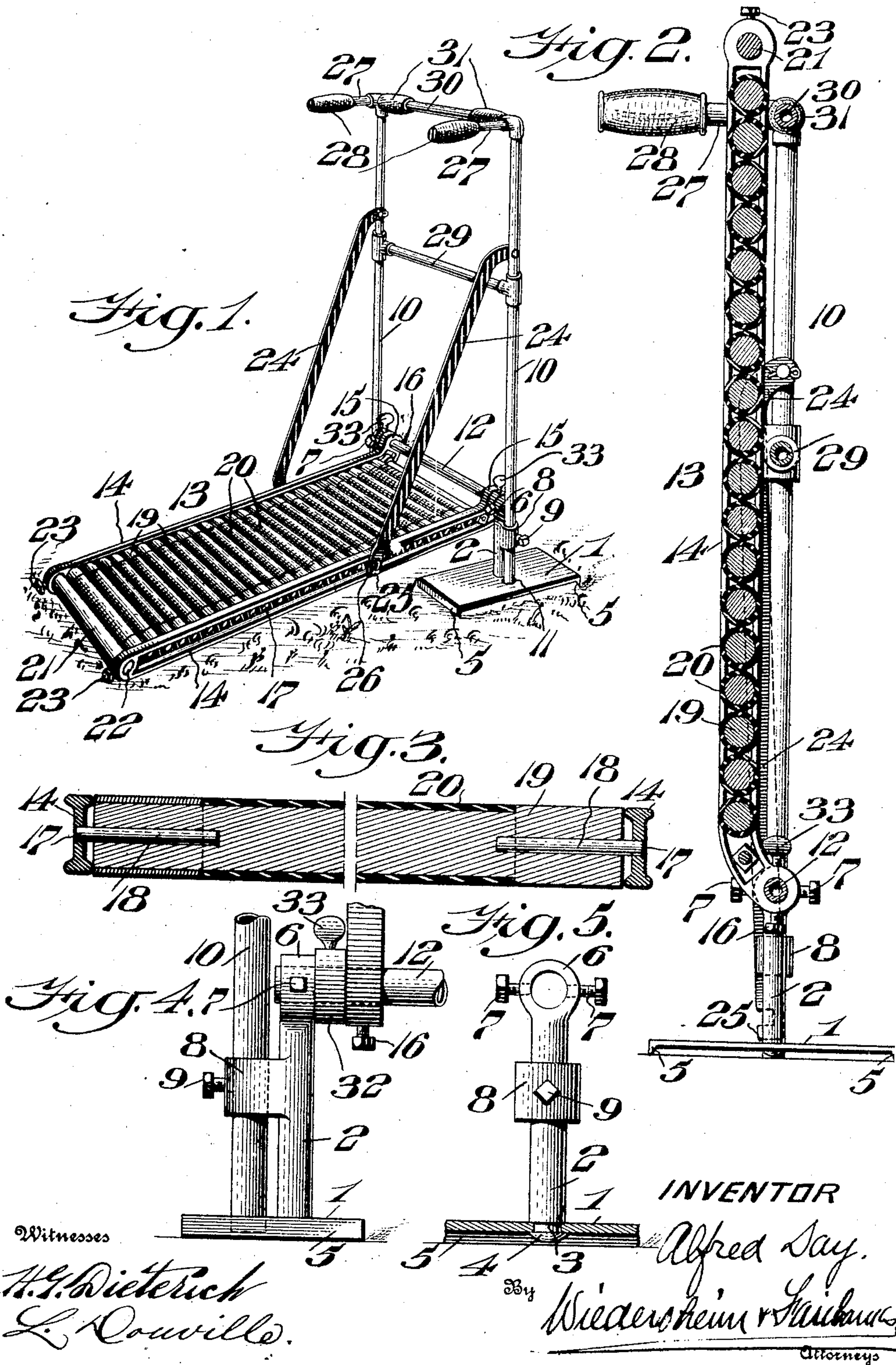


A. DAY.
EXERCISING DEVICE.
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931,394.

Patented Aug. 17, 1909.



Witnesses

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UNITED STATES PATENT OFFICE.

ALFRED DAY, OF PHILADELPHIA, PENNSYLVANIA.

EXERCISING DEVICE.

No. 931,394.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALFRED DAY, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Exercising Device, of which the following is a specification.

My invention relates to a new and useful exercising device and consists of means whereby the same can be folded when not in use.

It further consists of other novel features of construction, all as will be hereinafter fully set forth.

Figure 1 represents a perspective view of an exercising device embodying my invention showing the same in open position: Fig. 2 represents a vertical sectional view thereof showing the parts in closed or folded position. Fig. 3 represents a sectional view of a form of roller which may be employed. Fig. 4 represents in elevation, on an enlarged scale, a supporting means for the upright frame. Fig. 5 represents a partial elevation and partial sectional view of the supporting means with some of the parts removed.

I have found in exercising devices of the character for which I obtained Letters Patent, No. 897,772, dated September 1st, 1908, that it is of advantage to fold the same so that the device, when not in use, will take up but little space and can be easily moved or transported out of the way, as will be evident.

In the drawings, I have shown a construction for carrying out my invention but it will be evident that changes may be made therein, other instrumentalities may be employed and the arrangement of the parts may be varied without departing from the spirit of my invention and I do not therefore desire to be limited in every instance to the exact construction as herein shown and described but desire to make such changes as may be necessary.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings, 1 designates the base of the device which may be formed in two parts or a single piece and to each of which is secured a standard 2, which may be secured in any desired manner, in the present instance, by means of the pin 3 having a head 4 thereon engaging the lower

portion of the base 1 which it will be noted is slightly elevated, in the present instance, by means of the off-sets 5, although this construction may not be employed in every instance. Upon the upper portion of the standard 2 is formed a bearing 6, in the form of a sleeve, and 7 designates set screws passing through said bearing for reasons as will be hereinafter set forth. Integral with or connected to said standard 2 is a collar 8 having a set screw 9 passing therethrough.

10 designates the uprights of the frame of the exercising device all of which are adapted to be movably mounted in the collar 8 on the standard 2, the end of which is adapted to enter an opening 11 in the base 1 it being understood that said uprights 10 are moved to the proper position in the collar 8 after which the set screws 9 are operated to lock the same whereby the uprights 10 are held in the desired position.

12 designates a supporting bar each end of which is seated in a sleeve 6 and held in position by means of the set screws 7 which are suitably actuated for this purpose.

13 designates a tread frame of the exercising device which in the present instance consists of the side bars 14, the ends of which are provided with suitable bearings 15 adapted to receive the supporting bar 12 and be movably or swingingly mounted thereon, said bearings having set screws 16 passing therethrough for locking the tread frame 13 in its adjusted position. In the said side bars 14 are a plurality of openings 17 which are adapted to receive the pins 18 carried by the rollers 19 which are preferably provided with rubber treads 20.

21 designates a cross bar which is adapted to be seated in openings 22 in the ends of the side bars 14 which ends carry set screws 23 for locking the bars 14 with respect to the cross bar 21, whereby it will be understood that the tread frame 13 is rigid and yet can be taken apart for purposes of inserting or removing any of the rollers 19 as may be desired or necessary should any of them break or become worn.

Pivotally supported on the uprights 10 are brace bars 24 the ends of which are provided with hooks or other engaging means adapted to receive pins 26 carried by the side bars 14, whereby it will be understood that when the tread 13 is in operative position the brace bars 24 are connected there-

with and with the supporting frame thus holding the parts rigid and in proper position.

Projecting at an angle from the uprights 10 are the handle bars 27, the distance between which it will be noted is greater than the width of the tread frame 13, said handle bars 27 being provided with any suitable material 28 forming the handles for grasping on the part of the operator. The uprights 10 are further braced by the bars 29 and 30 on the upper of which I also provide grasping handles 31 of any suitable material.

It will be understood that the standards 2, uprights 10 and the connecting cross bars 29 and 30 form a firm and substantial upright frame with which the movable portions of the device cooperate.

The operation of the device is as follows:—The uprights 10 are adjusted in their proper position with respect to the base 1 by loosening the set screws 9 and after the parts have been placed in proper position the set screws are again tightened thus firmly locking the uprights 10 with respect to the standard 2. The tread frame 13 in operative position is that seen in Fig. 1 with the brace bars 24 engaging with the pins 26. The operator or exerciser takes his place upon the rollers 19 grasping either handles 28 or 31 and as in the manner of a tread mill can run upon the tread frame 13 as will be evident, it being understood that the set screws 16 are tightened against the supporting bar 12 assisting in holding the parts in their proper position. In order to store or fold up the device, the brace bars 24 are first released from engagement with the pin 26 and allowed to fall into position adjacent the uprights 10 and after releasing the set screws 16 the free end of the tread frame 13 can be raised to a position between the handle bars 27, that is, into the position seen in Fig. 2, whereby the device can be stored or moved out of the way and takes up very little room as will be evident. Any suitable means for holding the tread frame 13 in its elevated position may be employed as for example by again tightening the set screws 16. In the present instance, I have shown the collar 32 mounted on the supporting bar 12 and held in place by a set screw 33, said collar separating the side bar 14 in the movable tread frame from engagement with the bearing 6 of the standard 2.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. In a device of the character described, an upright frame, and a tread frame swingingly supported within the sides of the upright frame whereby the parts may be folded together.

2. In a device of the character described, an upright frame, a tread frame swingingly supported within the side of the upright frame, and means for locking said frame in its different positions.

3. In a device of the character described, an upright frame, and a tread frame having side bars swingingly mounted on said upright frame within the sides of the same and rollers carried by said side bars.

4. In a device of the character described, an upright frame, and a tread frame having side bars swingingly mounted on said upright frame within the side of same, rollers carried by said side bars, and means for locking said side bars with respect to said upright frame.

5. In a device of the character described, a plurality of standards, an upright secured to each standard and a tread frame swingingly carried by said standards and mounted between the same.

6. In a device of the character described, standards, uprights mounted on said standards, a supporting bar carried by said standards and a tread frame swingingly mounted on said supporting bar between the standards.

7. In a device of the character described, standards, uprights removably mounted on said standards, means for locking the uprights with respect to said standards, a supporting bar, a tread frame swingingly mounted on said supporting bar between the standards and means for locking said tread frame with respect to said supporting bar.

8. In a device of the character described, an upright frame, and a tread frame formed of side bars swingingly carried by said upright frame between the sides thereof, rollers carried by said side bars and a removable cross bar connecting the free ends of said side bars.

9. In a device of the character described, an upright frame, and a tread frame formed of side bars swingingly mounted on said upright frame between the sides thereof, rollers carried by said side bars, a cross bar for the free ends of said side bars, and means for locking said cross bar with respect to said side bars.

10. In a device of the character described, an upright frame, and a tread frame formed of side bars, swingingly mounted on said upright frame between the sides thereof, means for locking said side bars with respect to said upright frame, rollers carried by said side bars, and brace bars carried by said upright frame and adapted to be removably connected with said side bars.

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Witnesses:

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