

No. 881,978.

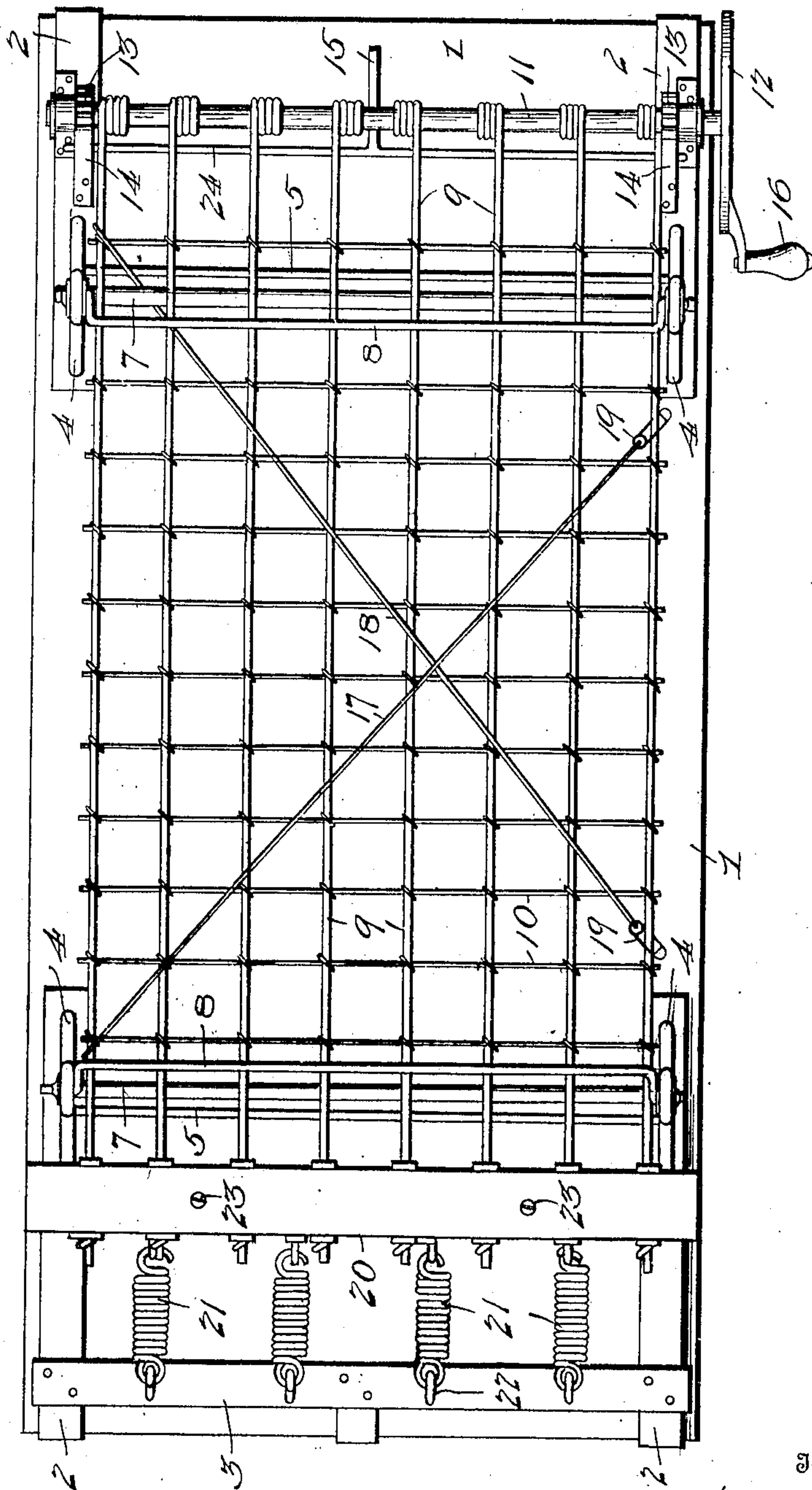
PATENTED MAR. 17, 1908.

F. WALLERSTEIN.  
CLOTHES BEATING APPARATUS.

APPLICATION FILED MAR. 1, 1907.

2 SHEETS—SHEET 1.

Fig. 1.



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2 SHEETS—SHEET 2.

Fig. 2.

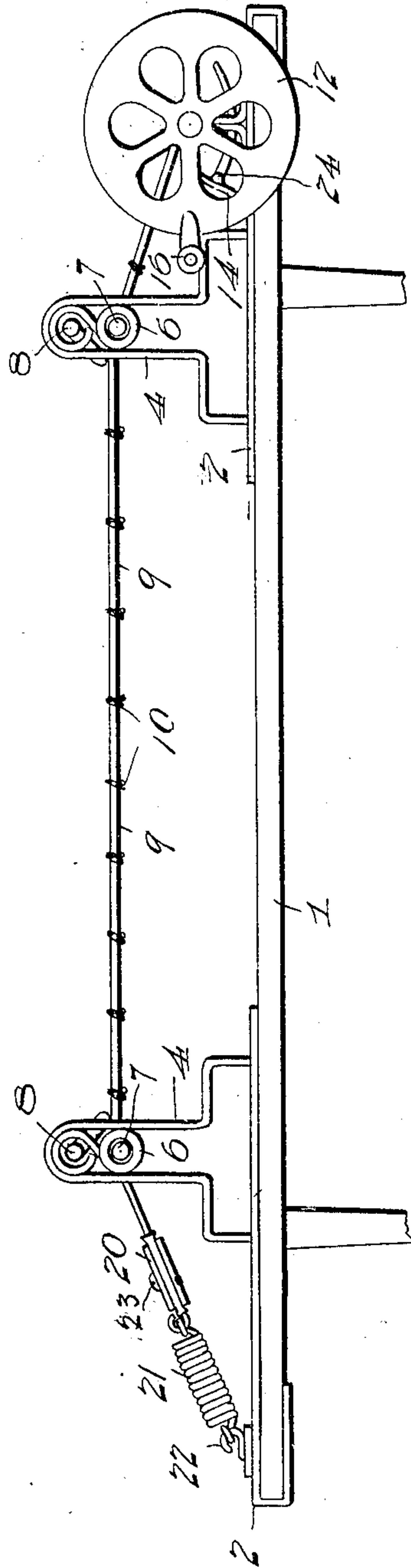
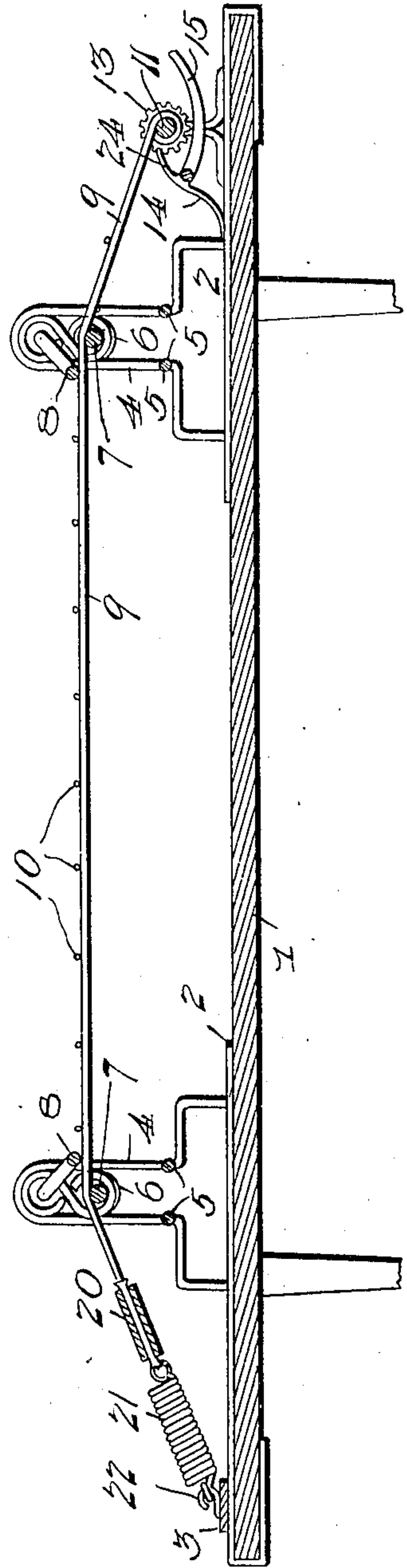


Fig. 3.



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# UNITED STATES PATENT OFFICE.

FRANK WALLERSTEIN, OF BROOKLYN, NEW YORK.

## CLOTHES-BEATING APPARATUS.

No. 881,978.

Specification of Letters Patent.

Patented March 17, 1908.

Application filed March 1, 1907. Serial No. 360,046.

*To all whom it may concern:*

Be it known that I, FRANK WALLERSTEIN, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Clothes-Beating Apparatus, of which the following is a specification.

My invention relates to clothes beating apparatus, and more particularly to apparatus of this kind which is suitable for tailors' use for beating and cleaning the dust from clothes.

The primary object of my invention is to produce a device of the class described which will be efficient in use and which may readily be disassembled and stored away when desired.

With the above and other objects in view my invention consists in the construction hereinafter described and shown in the accompanying drawings, in which,

Figure 1 is a plan view of my improved beating apparatus. Fig. 2 is a side elevation of the same, and Fig. 3 is a vertical longitudinal section.

Referring to the drawings in detail, my improved apparatus is designed to be attached to an ordinary table 1, and to this end it comprises clamping members or base plates 2 adapted to lie on the table and engage the edge thereof as shown in Figs. 2 and 3. Attached to and rising vertically from these base plates are four corner posts or supports 4. These may conveniently be constructed of light iron framework. Secured in eyes 6 carried by each post and extending transversely across the apparatus at each end are tie rods 7, and below these, extending between the pairs of posts at each end of the machine, are auxiliary tie rods or members 5, as clearly shown in Fig. 3. Journalled in the top of the posts just above the rods 7 are angular pivoted guards or bars 8 which in their normal position rest upon the rods 7.

Connecting the base members 2 at one end of the table is a transverse bar 3 forming a fixed support and carrying on its upper face a plurality of hooks 22. Engaging these hooks is one end of a plurality of springs (four being shown) 21, the other ends of which are attached to a transverse member 20.

The beating bed consists of a plurality of longitudinal elements 9 crossed by transverse elements 10 forming a mesh or weave.

These bed forming elements may consist of cords, strips, wire or other suitable material. At one end the longitudinal elements 9 are secured in the frame member 20, such member consisting of two parts held together by screws 23 between which the elements 9 are clamped. At the opposite end, the elements 9 are connected with and adapted to be wound upon a drum 11 supported in journals on the base members 2 and provided at one end with a hand wheel or crank 12 carrying a handle 16 by which it may be turned. Said drum 11 also carries rigidly attached to it at each end ratchet wheels 13 adapted to cooperate with spring pawls 14 secured to the base plates 2. These pawls are rigidly connected by a bar 24 to which is attached at its middle point a lever 15 as clearly shown in Fig. 1.

Diagonal strips, cross wires or other suitable holding means 17 and 18 are arranged above the bed and adapted to be attached thereto at its edges by means of suitable clips or clamps 19.

The operation of the apparatus is as follows: When it is desired to beat clothes the two sets of base plates are fitted to the opposite ends of a table as shown and the bed passed over the rods 7 and under the guards 8, as clearly shown in Fig. 3 and the end opposite the springs 21 is attached to the drum 11. By turning the handle 16 the bed is wound upon the drum and may be drawn taut, the pawls 14 engaging in the ratchet wheels 13 serving to maintain the tension. The springs 21 as will be seen serve to render the tautly drawn bed very resilient and this resiliency may be regulated to any desired degree by the extent to which the springs 21 have been stretched. The article to be beaten is laid upon the bed and the diagonal strips 17, 18 are stretched across it so as to hold it in place. The article may then be beaten by suitable rods or beaters provided for the purpose.

The function of the guards 8 is to prevent the elements 9 from being worn by the beaters coming in contact with them at the point where they overlie the rods 7. The guards 8 also exert a more or less steadying influence on the bed and tend to keep it from rebounding excessively when struck by the beaters.

When it is desired to use the table for other purposes the lever 15 is raised thereby lifting pawls 14 out of engagement with



ratched wheel 13, whereupon springs 21 retract, unwinding the bed from the drum 11 and causing the same to become slack. In this condition the parts may be readily dis-  
5 assembled and the base plates slipped off the ends of the table and removed.

It will be seen that I have provided a convenient and efficient apparatus of the character described and the many advan-  
10 tages of which will be readily appreciated by those skilled in the art.

What I claim is:

1. A clothes-beating apparatus comprising a flexible bed, means arranged at one side  
15 of and connected to said bed for placing it under tension, supporting means for the bed, and clamping means for connecting the other side of the bed to a suitable support.

2. A clothes beating apparatus comprising a flexible bed, springs connected to one  
20 end thereof and secured to a fixed support, the other end of said bed being connected to

a rotatable drum whereby the said bed may be placed under tension.

3. A clothes beating apparatus comprising a flexible bed, means for supporting the  
25 same, and means for putting the bed under tension, comprising a plurality of springs and a rotatable drum, pawl and ratchet mechanism for holding the drum against  
30 rotation, and a lever for releasing said drum.

4. A clothes-beating apparatus comprising a flexible bed, springs connected to one  
end thereof and secured to a fixed support, the other end of the bed being connected to  
35 a tension device, and guards arranged above the bed at each terminal thereof.

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

FRANK WALLERSTEIN.

Witnesses:

WILLIAM ROSENSTEIN,  
J. SOLOMON.