

(No Model.)

J. E. WILLIAMS.
CLOTHES DRIER.

No. 583,873.

Patented June 1, 1897.

FIG. 1.

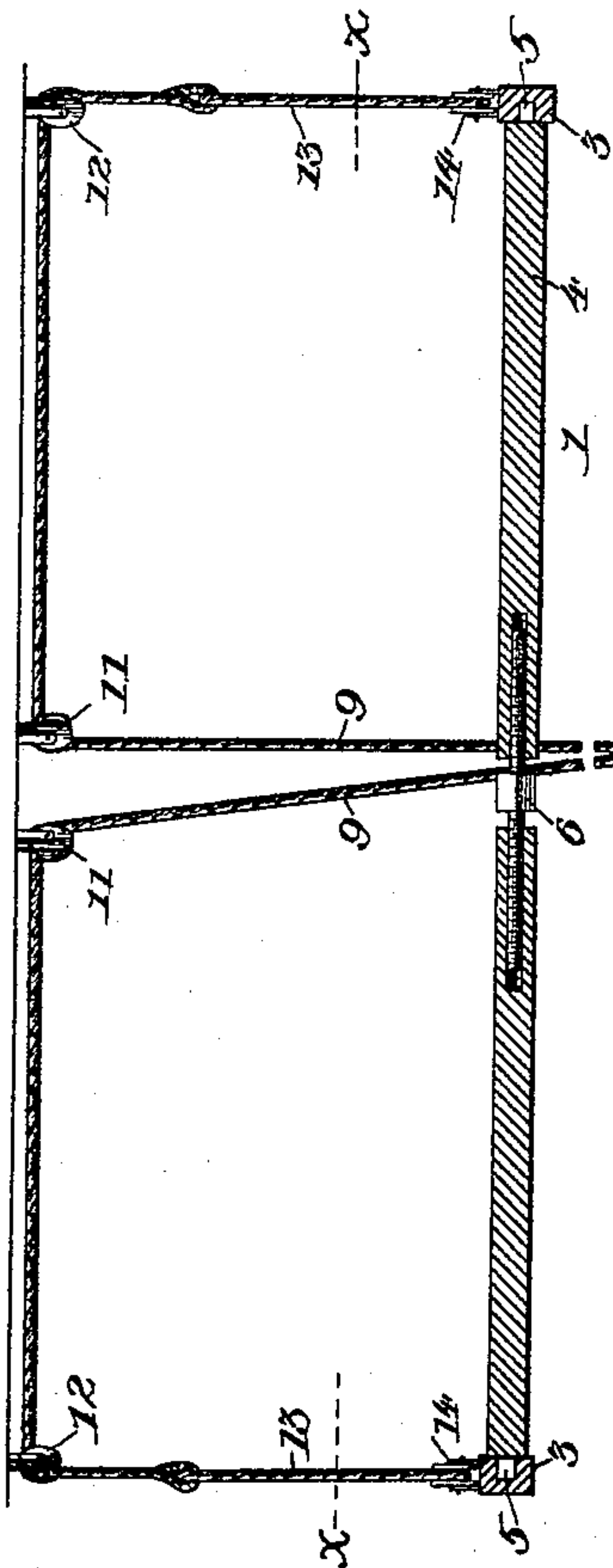
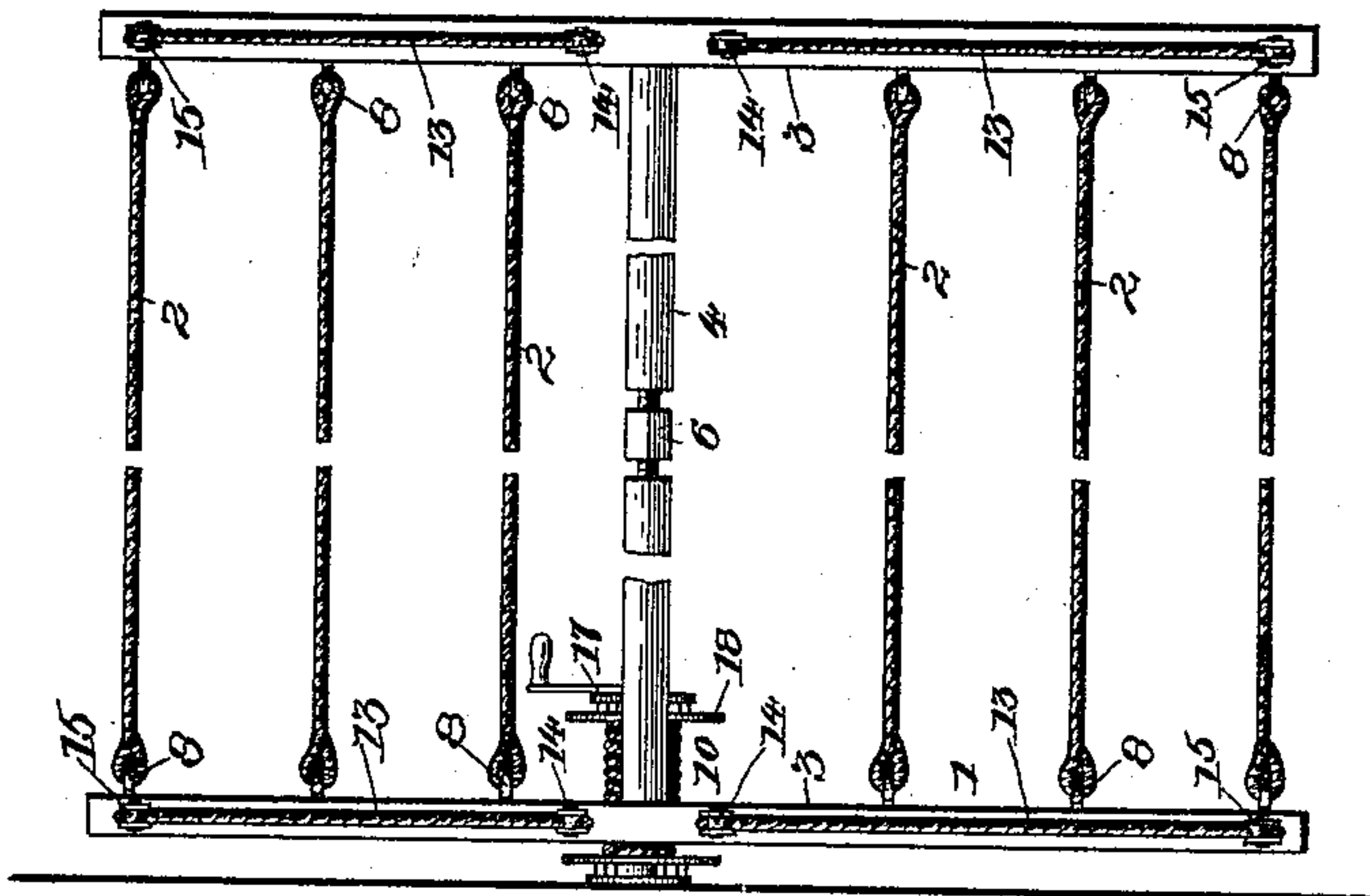


FIG. 3.

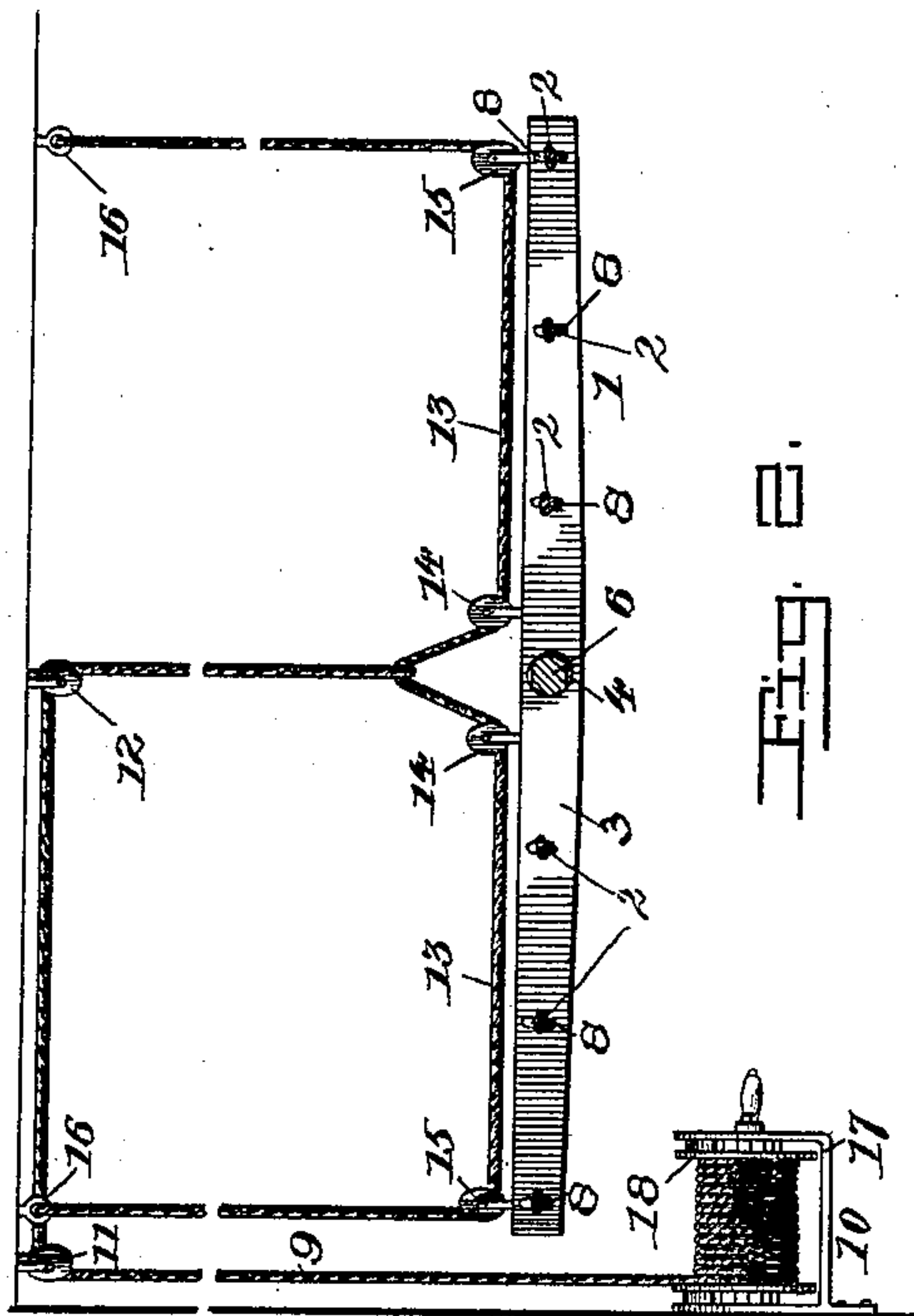
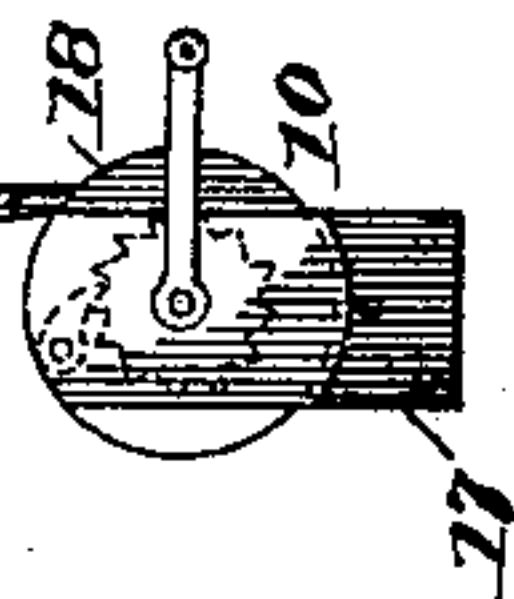


FIG. 5.

Witnesses

F. Lloyd Rockabe

J. H. Riley

By his Attorneys,

C. Snow & Co.

Inventor
John E. Williams.

UNITED STATES PATENT OFFICE.

JOHN E. WILLIAMS, OF MARQUETTE, MICHIGAN.

CLOTHES-DRIER.

SPECIFICATION forming part of Letters Patent No. 583,873, dated June 1, 1897.

Application filed February 29, 1896. Serial No. 581,346. (No model.)

To all whom it may concern:

Be it known that I, JOHN E. WILLIAMS, a citizen of the United States, residing at Marquette, in the county of Marquette and State of Michigan, have invented a new and useful Clothes-Drier, of which the following is a specification.

The invention relates to improvements in clothes-driers.

The object of the present invention is to improve the construction of clothes-driers and to provide a simple, inexpensive, and efficient one adapted to be arranged in a room and capable of utilizing the entire hanging space or area of the same and of enabling the clothes to be dried to be hung close to the ceiling of a room.

A further object of the invention is to provide a clothes-drier which may be readily raised and lowered to enable clothes to be conveniently hung on it and removed from it and which may be compactly arranged for shipping and storing.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a vertical longitudinal sectional view of the clothes-drier constructed in accordance with this invention. Fig. 2 is a transverse sectional view. Fig. 3 is a horizontal sectional view on the line xx of Fig. 1.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates a horizontally-disposed drier-frame forming a support for clothes-lines 2 and designed to be arranged horizontally in a room and to be raised and lowered to enable clothes to be hung on it and to be suspended from it at a point close to the ceiling. The drier-frame comprises a pair of end bars 3 and a central connecting-bar 4, disposed longitudinally of the room and composed of two sections having their outer ends 5 detachably interlocked with the end bars and connected at their inner ends by an adjusting-screw 6, whereby the central connecting-bar may be increased in length to tighten the clothes-

lines. The outer ends 5 of the sections of the connecting-bar are preferably provided with tenons fitting in perforations or mortises of the end bars, and the inner ends of the sections are provided with interiorly-threaded sockets to receive the sides of the connecting adjusting-screw. The mortise-and-tenon joints at the outer ends of the sections rigidly secure the connecting-bar to the end bars and hold the connecting-bar against any lateral movement. The adjusting-screw is composed of a central polygonal portion or wrench-seat and a pair of oppositely-disposed longitudinally-alined stems provided with right and left hand threads and arranged in the threaded sockets of the inner ends of the sections of the central connecting-bar, whereby the latter is adapted to be readily lengthened to tighten the clothes-lines to the desired tension.

The end bars of the drier-frame are provided at intervals with eyes 8, to which the ends of the clothes-lines 2 are secured, and the clothes-lines are arranged parallel, as shown, and are adapted to utilize the entire area of a room.

The drier-frame is suspended from the ceiling by a pair of hoisting-ropes 9 or the like, which extend upward from a windlass 10 to a pair of pulleys 11, located at one side of the room at the top thereof, and the hoisting ropes or lines extend from the pulleys 11 to a pair of centrally-arranged end pulleys 12, located directly above the end bars of the drier-frame. Each hoisting rope or line is provided at its outer end with a pair of extensions or branches 13, passing through pulleys 14 and 15 of the adjacent end bar of the drier-frame and extending upward from the terminals thereof and secured to eyes or hangers 16 or other suitable fastening devices depending from the ceiling. The pulleys 14 and 15, which receive the extensions or branches of the hoisting-ropes, are located near the ends and center of each end bar of the drier-frame, which is adapted to receive a heavy load without liability of breaking under the strain.

The windlass is mounted in a bearing-bracket 17 and consists of a drum 18, provided at its ends with ratchet-teeth, which are engaged by a pair of pivotally-mounted pawls.

A crank-handle is connected with the drum and is adapted to rotate the same to raise and lower the drier-frame.

5 The sections of the central connecting-bar may be disengaged from the end bars and disconnected from the adjusting-screw, which will enable the parts to be compactly arranged for storing or shipping.

10 If desired, the central connecting-bar may be duplicated and the two bars arranged at opposite sides of the frame to leave the central portion of the drier-frame open in order to accommodate the drier-frame to a room having a centrally-arranged lamp, chandelier, 15 or the like.

It will be seen that the clothes-drier is simple and inexpensive in construction, that it is easily manipulated, and that it is capable of utilizing the entire area of a room.

20 Changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

What I claim is—

25 1. In a clothes-drier, a drier-frame composed of end bars provided with mortises, clothes-lines connecting the end bars, an adjustable connecting-bar interposed between the end bars, abutting against the same and 30 adapted to force the said end bars outward away from each other to tighten the clothes-lines, said connecting-bar consisting of two sections provided at their inner ends with interiorly-threaded sockets and having tenons 35 at their outer ends fitting in the mortises of the

end bars, rigidly securing the connecting-bar to the end bars and holding the connecting-bar against any lateral movement, and an adjusting-screw having oppositely-threaded stems fitting in the sockets of the sections and 40 adapted to force the latter outward, substantially as described.

2. A clothes-drier comprising a drier-frame composed of end bars, a connecting-bar consisting of two sections connected at their inner ends by an adjusting-screw, and having 45 their outer ends detachably interlocked with the end bars, clothes-lines connecting the end bars, hangers designed to be arranged at the ends of a room and to depend from the ceiling 50 thereof, centrally-arranged end pulleys designed to be suspended from a ceiling, pulleys mounted on the end bars of the drier-frame and arranged near the centers and terminals thereof, hoisting-ropes passing through the 55 centrally-arranged end pulleys and provided with end branches passing through the pulleys of the drier-frame and secured to the hangers, a pair of pulleys located at one side of the room and receiving the hoisting-ropes, 60 and a windlass connected with the hoisting-ropes, substantially as and for the purpose described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 65 the presence of two witnesses.

JOHN E. WILLIAMS.

Witnesses:

MARIE R. DAWSON,
JAMES W. WILLIAMS.