

(Model.)

C. G. CONN.

DRUM HEAD TIGHTENER.

No. 353,204.

Patented Nov. 23, 1886.

FIG. I.

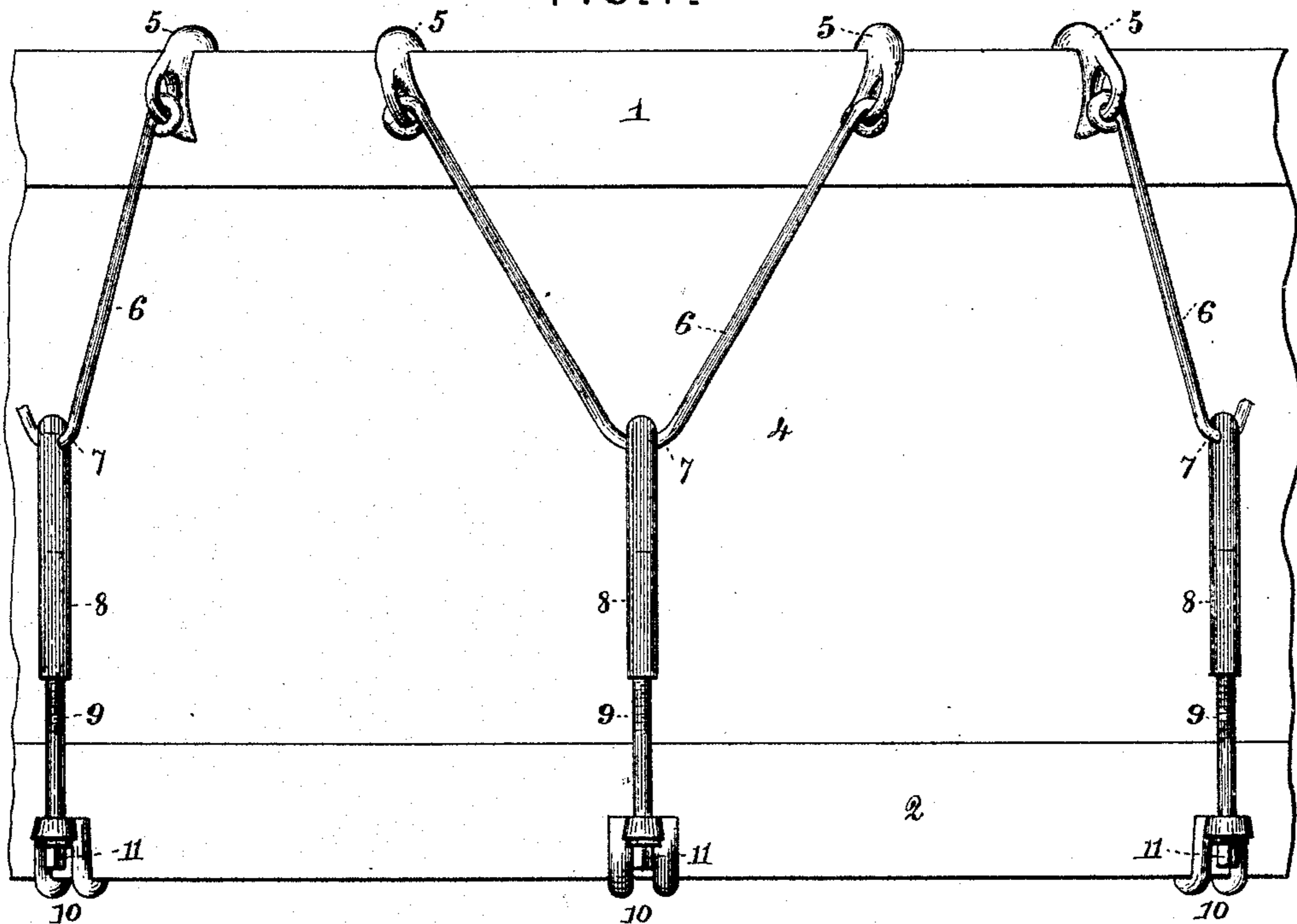
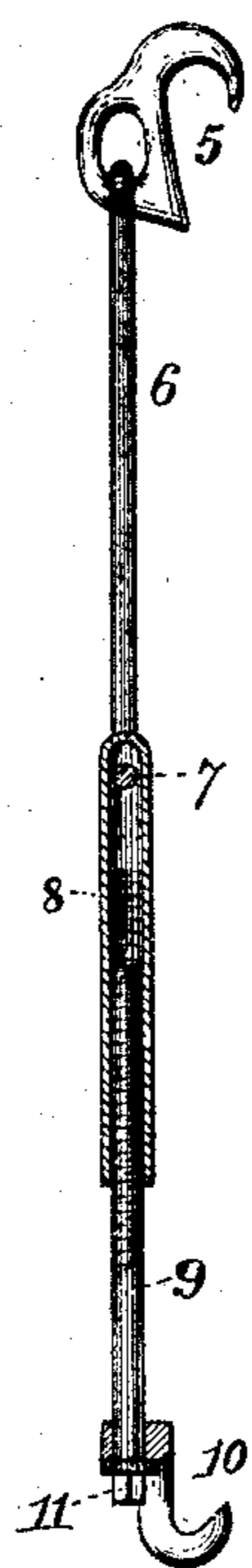


FIG. II.



Attest:
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UNITED STATES PATENT OFFICE.

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DRUM-HEAD TIGHTENER.

SPECIFICATION forming part of Letters Patent No. 353,204, dated November 23, 1886.

Application filed June 1, 1886. Serial No. 203,827. (Model.)

To all whom it may concern:

Be it known that I, CHARLES G. CONN, a citizen of the United States, residing at Elkhart, in the county of Elkhart and State of Indiana, have invented a new and useful Improvement in Drum-Head Tighteners, of which the following is a specification.

The object of my improvement is to simplify the action of those drum-head tighteners in which a screw is used for drawing together the hooks, this being effected by connecting each screw employed to two hooks of the upper or lower heads. By this means double the number of hooks may be employed on either rim or hoop, thus affording a more even tension on the drum-heads, and this increase in number of tension-points is obtained without at all increasing the time necessary for tightening the drum.

In order that the invention may be fully understood, I will proceed to describe it with reference to the accompanying drawings, in which—

Figure I is a side elevation of a portion of a drum to which my invention is applied. Fig. II is an elevation of one of the tighteners detached, the line of sight being at right angles to that shown in Fig. I.

1 2 may represent, respectively, the upper and lower rims or hoops of a drum, and 4 the body. Customary hooks, 5, are placed over the edges of the rim 1, and are joined together in pairs by means of a wire, cord, or rod, 6, bent at 7, and receiving at that point the upper end of a rod, 8. The said rod is screw-threaded interiorly to receive a screw-rod, 9, which has swivel connection with a hook, 10, placed over the edge of the lower rim or hoop, 2.

The rod 9 may be turned so as to lengthen or shorten the distance between the hook 10 and the wire or cord 6 by means of a square head, 11, and a suitable key. In this way two hooks upon the upper rim or hoop are tightened or loosened at once, enabling the use of a larger number of such hooks than is custom-

ary, and at the same time the gaining of considerable time in the operation of tightening or loosening the drum-head.

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

1. In a drum-head tightener, the combination of a wire or cord connected at two points to independent paired fastenings engaging one rim or hoop, a rod connecting said wire or cord to the other rim or hoop, and means for lengthening or shortening such connections, said tightener being disconnected from those adjoining, substantially as set forth.

2. A drum-head tightener consisting of an extensible rod, a hook secured to one end of the rod, and a wire or cord secured to the other end of the rod, provided with a pair of fastenings secured to the ends thereof, substantially as described.

3. A drum-head tightener consisting of hooks adapted to be connected to either rim or hoop of a drum, wires or cords connecting said hooks in pairs, two-part rods adapted to be lengthened or shortened and connected to said wires or cords at one end, and hooks joining the other end of said rods to the other rim or hoop of the drum, substantially as set forth.

4. The combination of the hooks 5, applied to either rim or hoop of a drum, a bent wire, cord, or rod, 6, connecting said hooks in pairs, a rod, 8, connected at one end to the bent portion of said wire, cord, or rod, and interiorly screw-threaded at its other end, a rod, 9, engaging with such interior screw-thread on the rod 8, and having a square head at its lower end, and a hook, 10, swiveled on said screw-rod 9 and applied to the lower hoop, 2, of the drum, substantially as and for the purpose set forth.

CHARLES G. CONN.

Witnesses:

E. W. BLINN,
E. C. BICKEL.