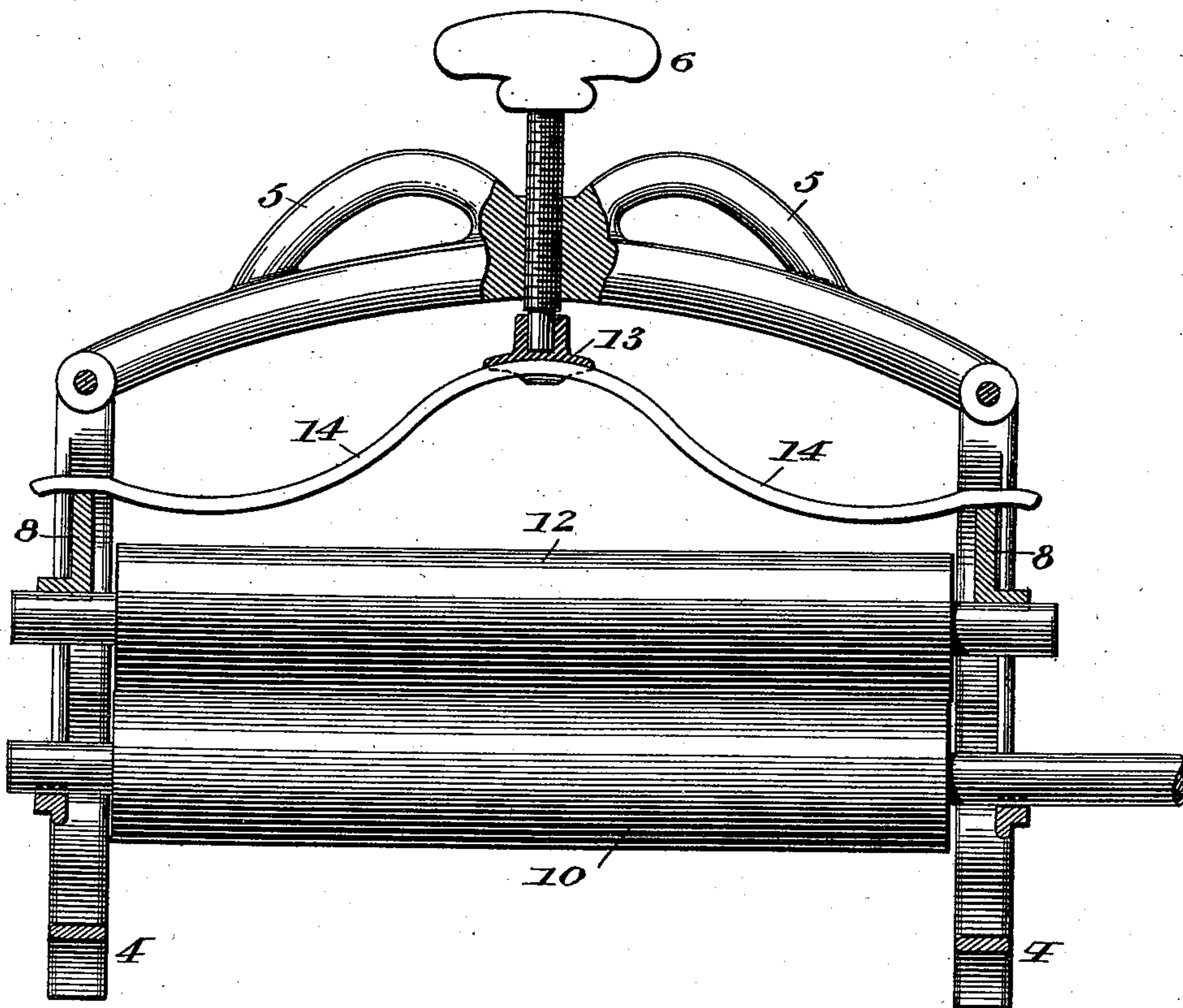


(Model.)

W. THORNTON.
CLOTHES WRINGER.

No. 504,483.

Patented Sept. 5, 1893.



Witnesses.
L. N. Gladish.
L. P. Gladish.

Inventor.
William Thornton
by
W. J. Gladish
Atty.

UNITED STATES PATENT OFFICE.

WILLIAM THORNTON, OF CHATTANOOGA, TENNESSEE.

CLOTHES-WRINGER.

SPECIFICATION forming part of Letters Patent No. 504,483, dated September 5, 1893.

Application filed August 29, 1892. Serial No. 444,482. (Model.)

To all whom it may concern:

Be it known that I, WILLIAM THORNTON, a citizen of the United States, residing at Chattanooga, in the county of Hamilton and State of Tennessee, have invented a new and useful Improvement in Clothes-Wringers, of which the following is a specification.

The invention relates to the spring by which the rolls, preferably of rubber or with a rubber coating, are allowed to separate and are forced the one toward the other when irregular masses of clothing are passed between them. I employ but one spring having three bends, with one thumb screw bearing upon the center of the spring and the ends of the spring resting on the boxes of the top roller. This spring is made in such shape that it will not deflect the boxes outward or inward as the roll is forced up by the clothes passing through it, or down by the action of the spring. The middle bend of the spring has the convex side up, and near the end of the spring, at each side of the center, the convex side is down, so that a straight line drawn through the center of the ends will show the two end curves below the line, and the middle bend above the line. When the thumb screw 6. depresses the middle of the spring it will have a tendency to straighten it and make it longer, but the ends having their convex side down will crook more and shorten it, and thus the spring will have no tendency to deflect the top of the boxes 8. 8. out or in.

The accompanying drawing forms a part of this specification.

The figure is an elevation partly in section of my improved clothes-wringer. It repre-

sents the novel parts with so much of the ordinary parts as is necessary to show the relation of one to the other.

Similar numerals of reference indicate like parts in the drawing.

The numerals 4. 4. designate the fixed framework of malleable iron or other suitable material.

10. and 12. designate the rolls, and 8. 8. are the sliding boxes of the upper roller, which bear on the shaft of the said upper roller and transmit thereto the force of the spring 14.

5. is a connecting bar to connect the top of the frame together.

6. is an adjusting screw pressing down on the middle of the spring.

13. is a saddle for the screw to rest against.

14. is the spring.

What I claim as my invention, and wish to secure by Letters Patent, is—

The spring 14 made with three bends, the middle bend with the convex side up, and near the ends bent with the convex side down, so a line drawn through the center of the ends will show part of the spring above the line and part of the spring below the line, so the pressure on the spring will not cause the boxes to be deflected out or in,—substantially as set forth.

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

WILLIAM THORNTON.

Witnesses:

L. N. GLADISH,

I. M. GLADISH.