

(No Model.)

J. D. WOODBURY.
HAIR CRIMPER.

No. 283,183.

Patented Aug. 14, 1883.

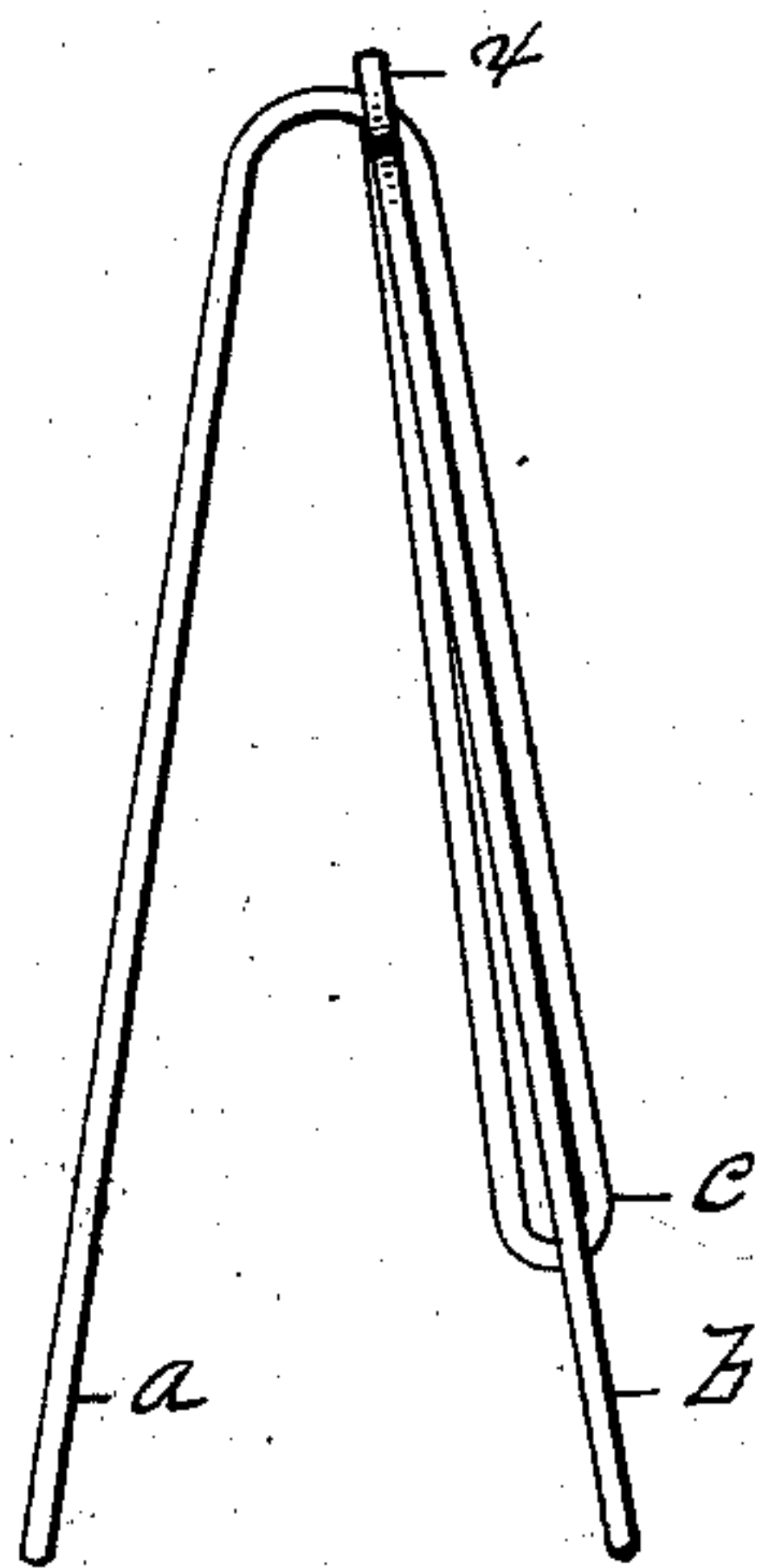


Fig I,

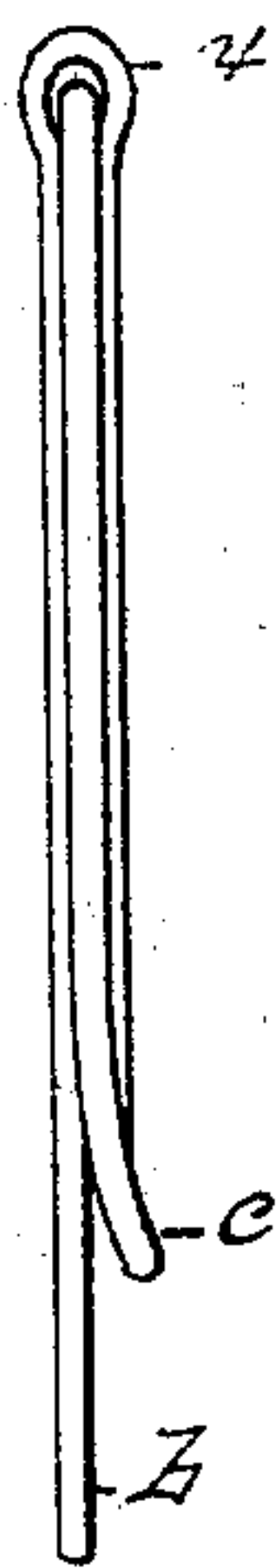


Fig II,

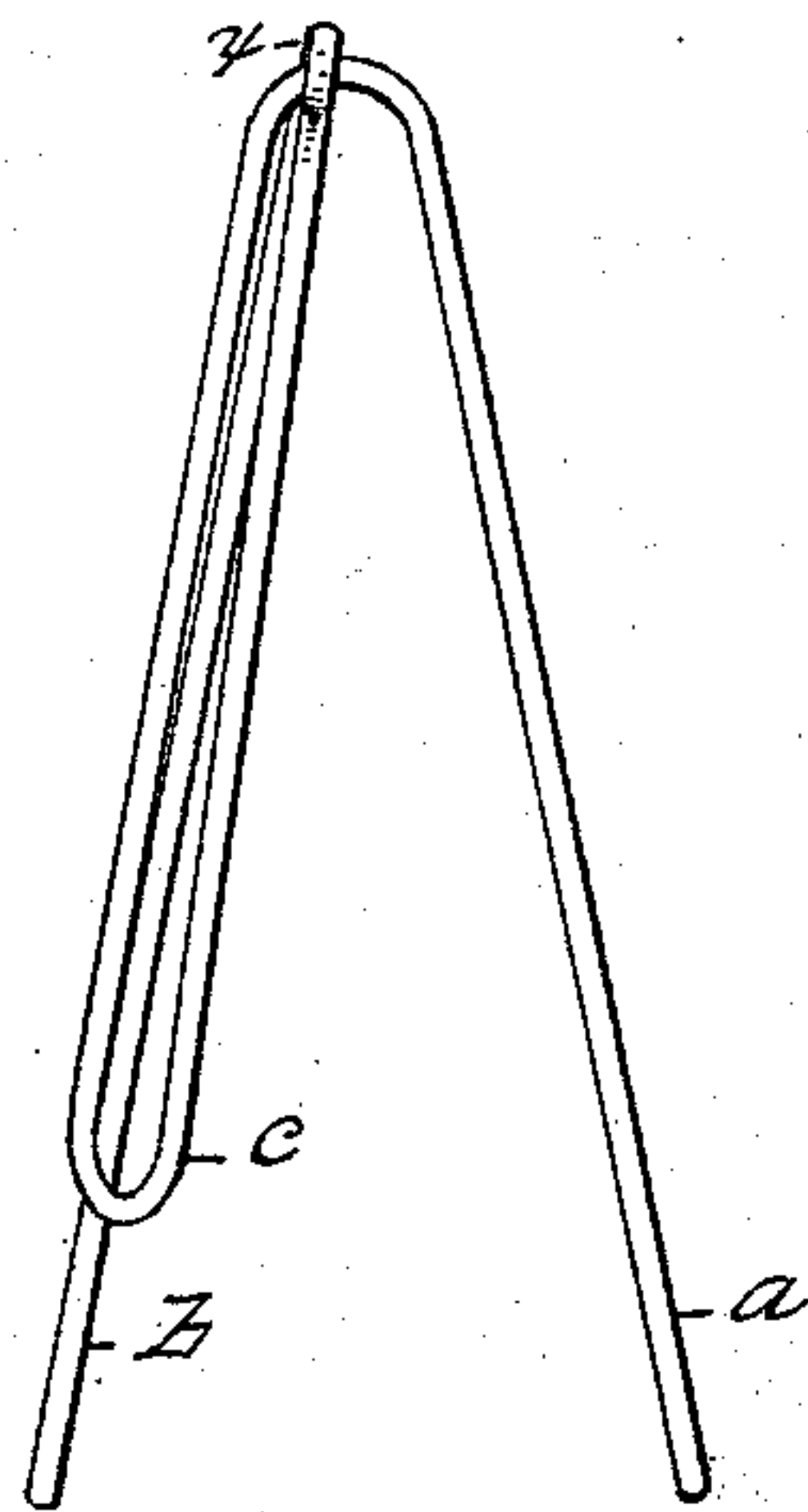


Fig III,

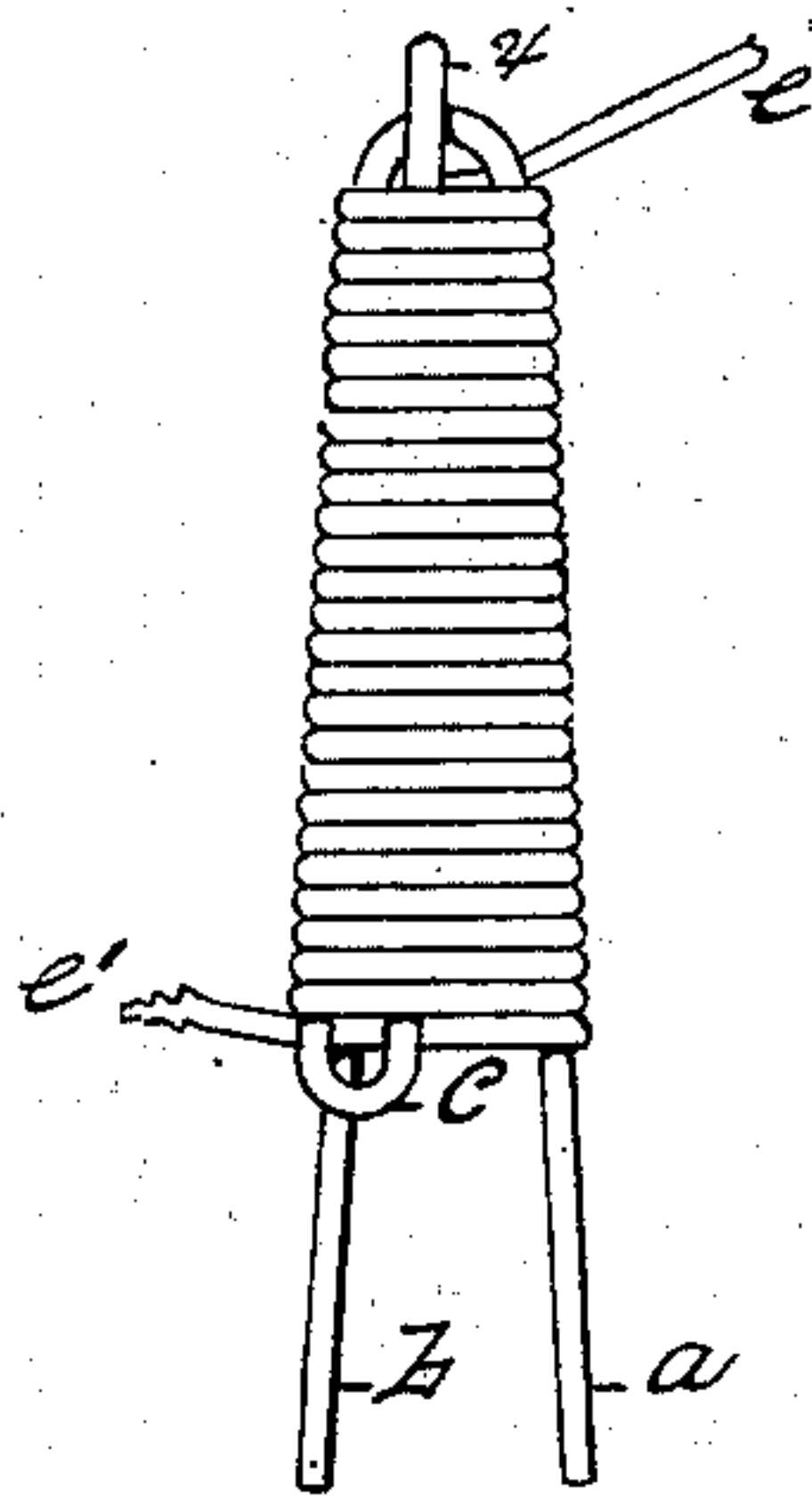


Fig IV,

Witnesses,
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UNITED STATES PATENT OFFICE.

JOSEPH D. WOODBURY, OF SPRINGFIELD, MASSACHUSETTS.

HAIR-CRIMPER.

SPECIFICATION forming part of Letters Patent No. 283,183, dated August 14, 1883.

Application filed April 10, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH D. WOODBURY, a citizen of the United States, residing at Springfield, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Hair-Crimpers, of which the following is a specification.

This invention relates to improvements in the construction of hair-crimpers; and it consists in making a crimper in a form generally like that of a common hair-pin, but having a doublespring-leg thereon adapted to bear with more or less force against one of the legs of the crimper, said three legs being bent from a continuous piece of wire, the object being to provide a crimper of this description having the requisite three legs, but made solely from a single piece of wire, whereby greater elasticity is obtained, and its cost is materially reduced.

In the drawings forming part of this specification, Figure I is a side view of a hair-crimper constructed according to my invention and showing the spring-leg in the rear. Fig. II is an edge view, and Fig. III is a view of the reverse side of Fig. I. Fig. IV illustrates the manner of winding the hair upon the crimper and securing one end thereof under said spring-leg.

I construct my improved hair-crimper from wire having the requisite elasticity, bending said wire at the upper end of leg *a* to the curved form shown, and thence carrying the wire downward opposite to said leg, but to a point above the lower end of the latter, and, bending it upon itself at said point, the wire is carried back to the curved head of the crimper, thereby forming the leg *c*, consisting

of a double line of wire. One of said lines of wire forming the leg *c* having been carried to said head of the crimper, it is there bent at *x* over said head and closely set upon the latter, and from thence the line of wire is carried down by the side of said leg *c* and made to form the leg *b* opposite to leg *a*. By closely setting the wire over the head of the crimper at *x* the leg *b* and the spring-leg *c* are caused to press against each other, and some little force is required to separate one from the other.

In Fig. IV the cord *e* represents, by the manner it is placed on the crimper, the manner of winding and securing the hair thereon. The hair is wound from the head of the crimper downward toward the ends of the legs *b* and *a*, inclosing with the latter the spring-leg *c*, and the ends of the hair represented by the end *e'* of said cord are drawn between the end of leg *c* and the leg *b*, and thus well secured to the crimper. The inclination of the legs *b* and *c* to spring apart causes suitable tension to be given to the hair which is wound around them.

I do not claim, broadly, as my invention a hair-crimper having three legs, as a similar construction is shown in the United States Patent No. 255,101, of March 21, 1882; but

What I claim as my invention is—

The within-described improved hair-crimper, consisting of the legs *a* and *b*, of single wire, and the doubled wire leg *c*, constructed solely from a single piece of wire, bent as set forth.

JOSEPH D. WOODBURY.

Witnesses:

R. F. HYDE,

H. A. CHAPIN.