

(No Model.)

R. I. MOORE.

BELT TIE.

No. 308,785.

Patented Dec. 2, 1884.

FIG-1-

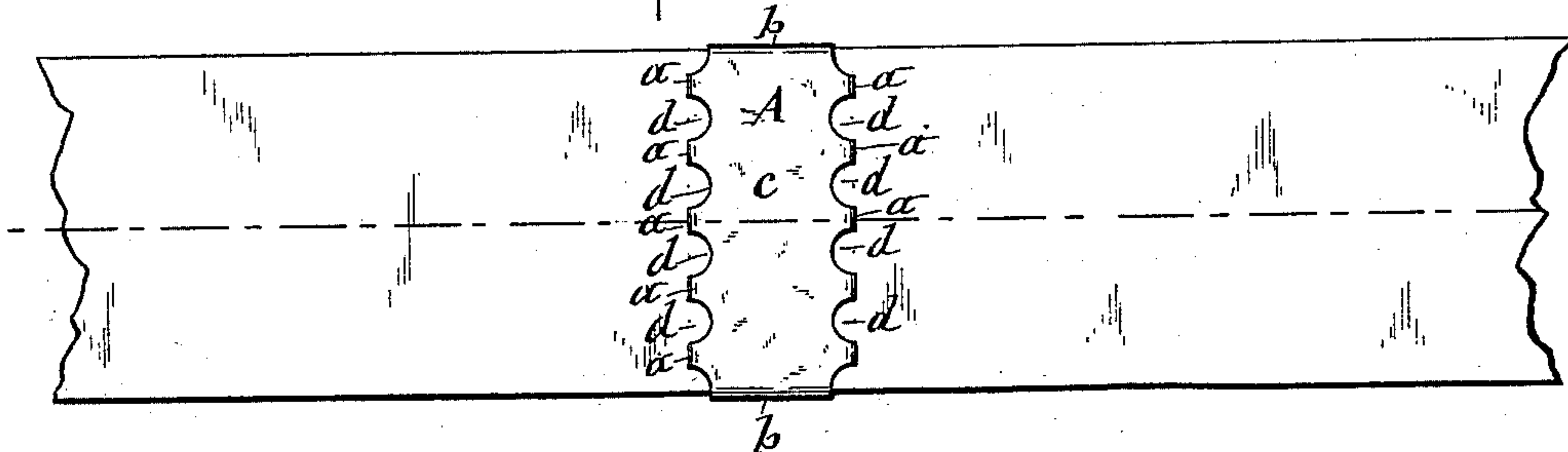


FIG-2-

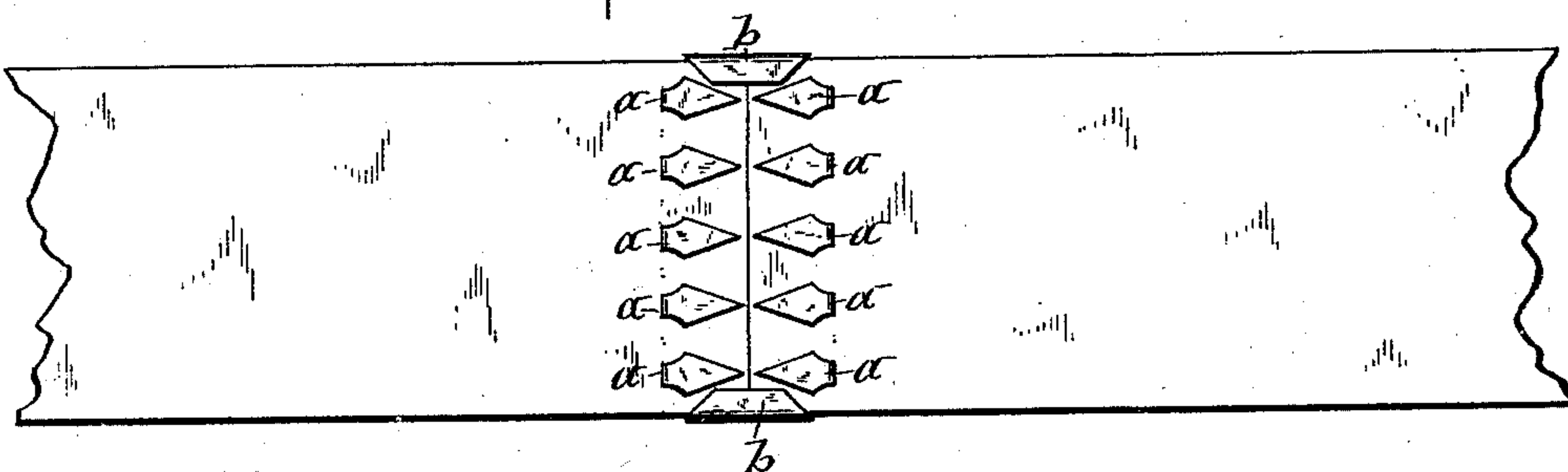


FIG-3-

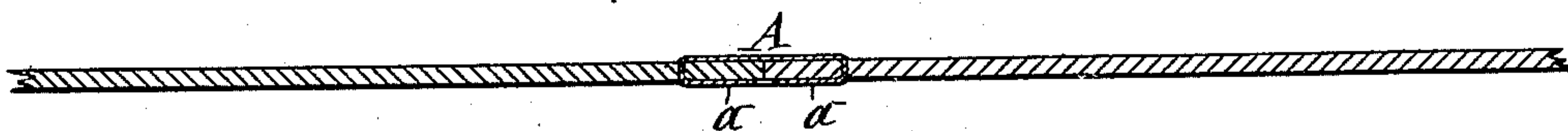


FIG-4-

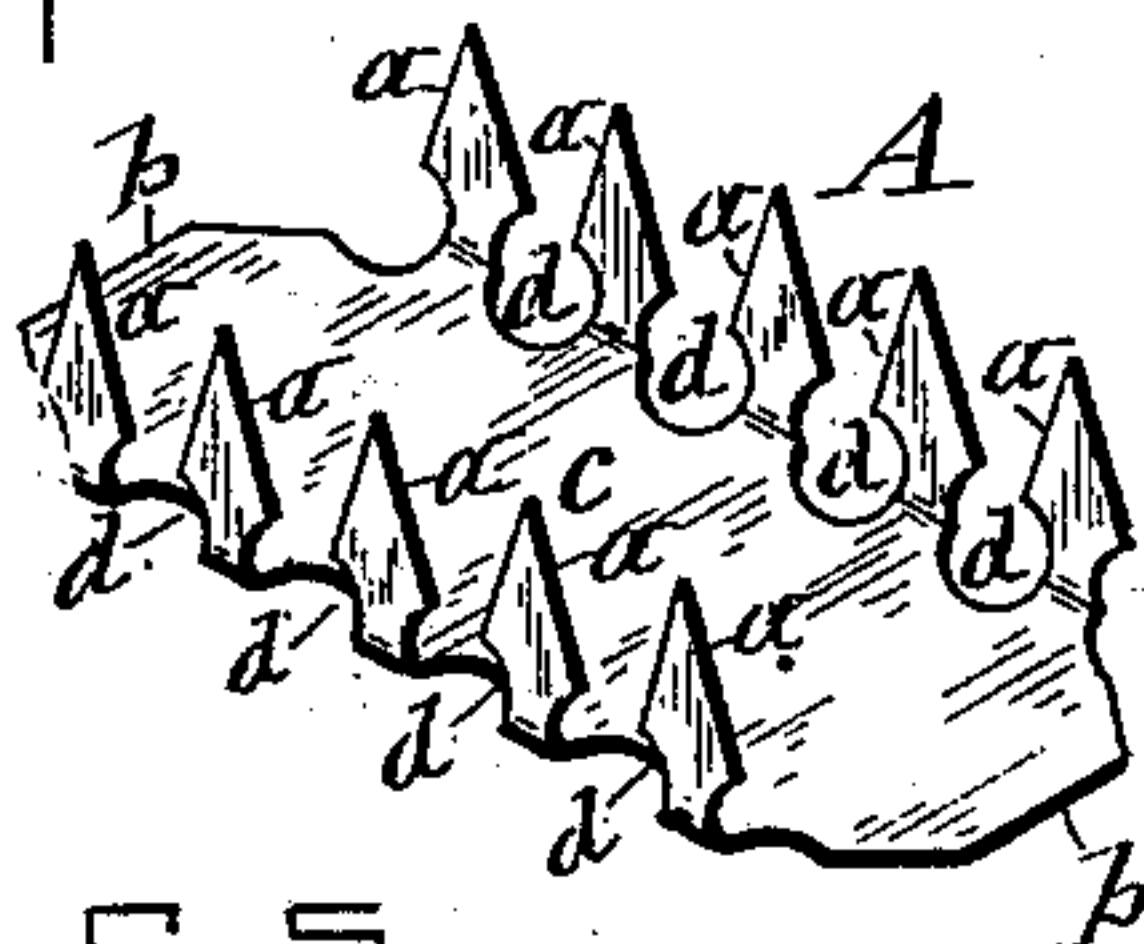
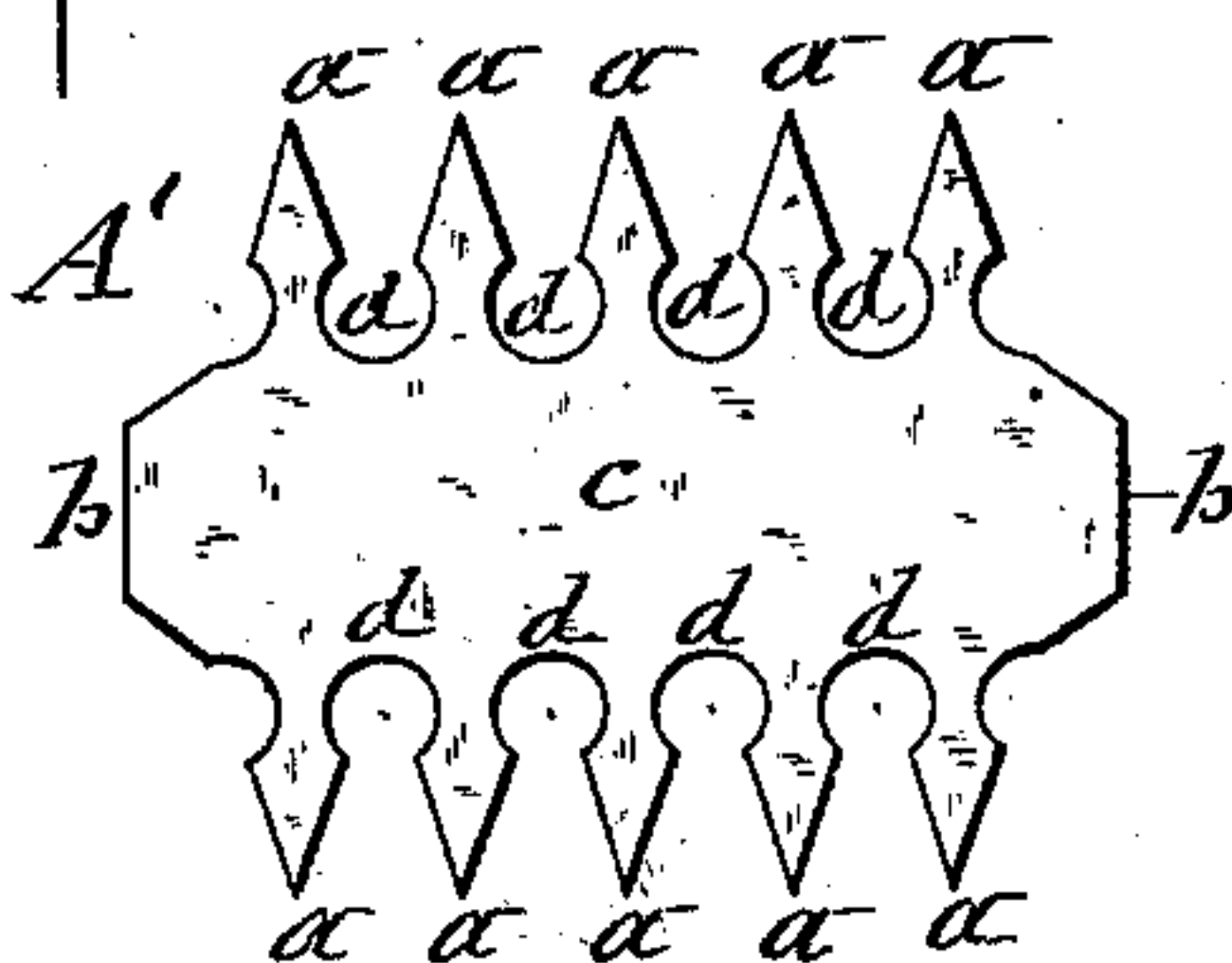


FIG-5-



ATTEST-

Wm. C. Raymond

C. Bendison

INVENTOR-

Robert I. Moore
per Will, Laess & Hey
his Atty

UNITED STATES PATENT OFFICE.

ROBERT I. MOORE, OF SYRACUSE, NEW YORK.

BELT-TIE.

SPECIFICATION forming part of Letters Patent No. 308,785, dated December 2, 1884.

Application filed October 7, 1884. (No model.)

To all whom it may concern:

Be it known that I, ROBERT I. MOORE, of Syracuse, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Belt-Ties, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to devices for uniting the ends of machine-belts and analogous bands; and it consists of a metal plate of peculiar construction, as hereinafter fully described, and specifically set forth in the claim.

In the annexed drawings, Figures 1 and 2 show opposite sides of a belt provided with my invention. Fig. 3 is a longitudinal section of the same. Fig. 4 is a detached isometric view of my improved belt-tie, and Fig. 5 is a plan view of the blank from which the aforesaid tie is formed.

Similar letters of reference indicate corresponding parts.

A' represents the blank from which my improved belt-tie is formed. Said blank consists of a flat plate composed of the rectangular solid central portion, *c*, from the two long edges of which project prongs *a a*, which are harpoon-shaped, and between the fixed ends of which the edges of the portion *c* are formed with excisions *d d*, for the purpose hereinafter explained, and the two ends of the central portion, *c*, are formed with extensions *b b*, as shown in Fig. 5 of the drawings.

The described blank I stamp out of any suitable sheet metal possessing the requisite strength and pliability.

By bending the prongs *a a* at right angles to the plane of the central portion, *c*, and in one and the same direction, I obtain the device A, (illustrated in Fig. 4 of the drawings,) which represents the belt-tie ready for use. In

applying the same to a belt I force the two rows of prongs *a a*, respectively, through the two end portions of the belt to be tied, from one side thereof, then bend over and clinch the said prongs on the opposite side of the belt, and bend the end extensions, *b b*, around the two side edges of the belt and over onto the opposite side thereof, and clinch on the latter the said extensions *b b*, as shown in Fig. 2 of the drawings.

It will be observed that when my invention is applied to a belt, as described and shown, the harpoon-shaped clinching-prongs obtain a secure hold on the belt by the excisions *d d* between the heels of the prongs, which excisions allow the intermediate portions of the belt to spread or expand around the heels of the aforesaid clinched prongs, and thus effectually prevent the withdrawal of the same. The embracing of the side edges of the belt by the end extensions, *b b*, of the tie serves to protect the said edges and prevent the raveling of the same.

What I claim as my invention is—

The improved belt-tie, composed of the rectangular central portion, *c*, harpoon-shaped prongs *a a*, projecting from the long edges of the portion *c*, and at right angles therefrom, excisions *d d*, between the heels of said prongs, and end extensions, *b b*, all formed in one piece, stamped out of sheet metal, substantially as described and shown.

In testimony whereof I have hereunto signed my name and affixed my seal, in the presence of two attesting witnesses, at Syracuse, in the county of Onondaga, in the State of New York, this 24th day of September, 1884.

ROBERT I. MOORE. [L. S.]

Witnesses:

FREDERICK H. GIBBS,
C. H. DUELL.