

(No Model.)

N. NEWMAN.

HOOP FASTENER.

No. 338,644.

Patented Mar. 23, 1886.

Fig. 1.

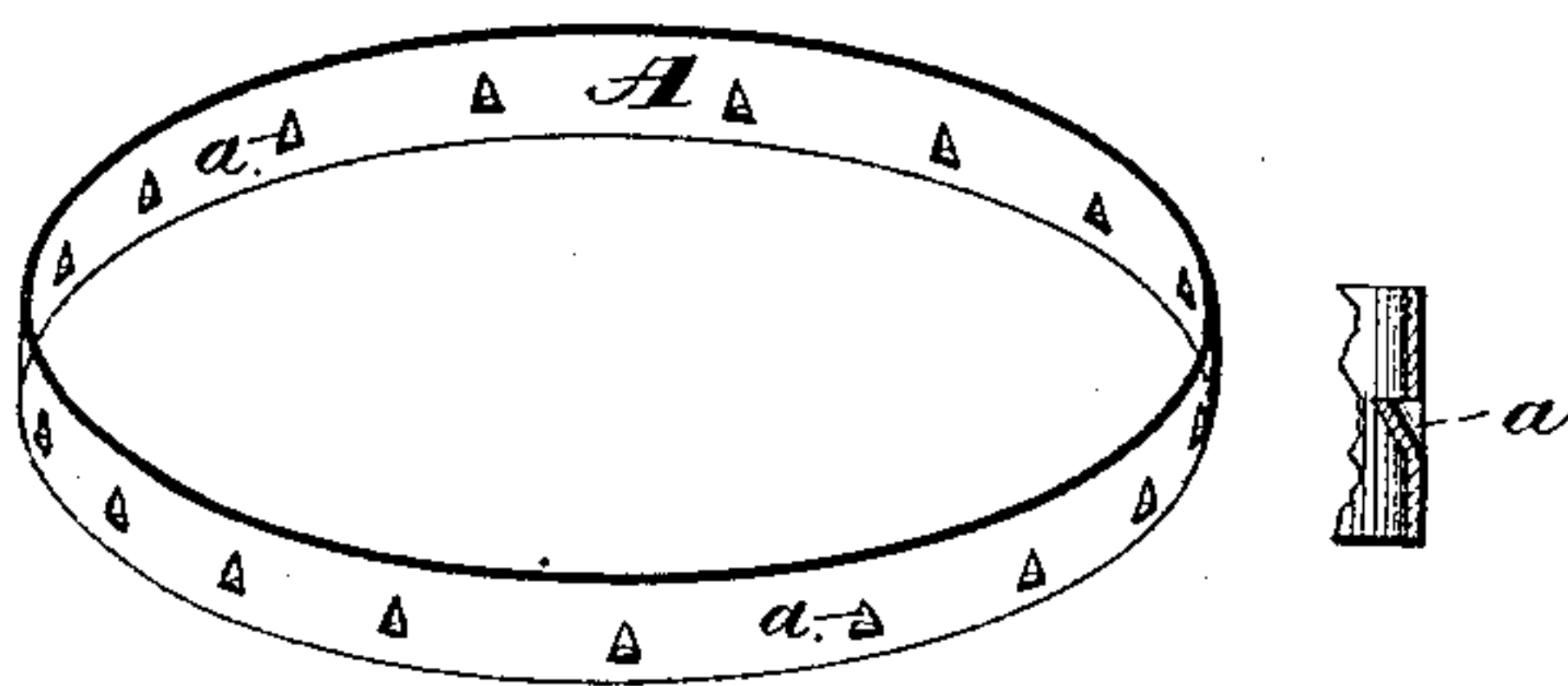
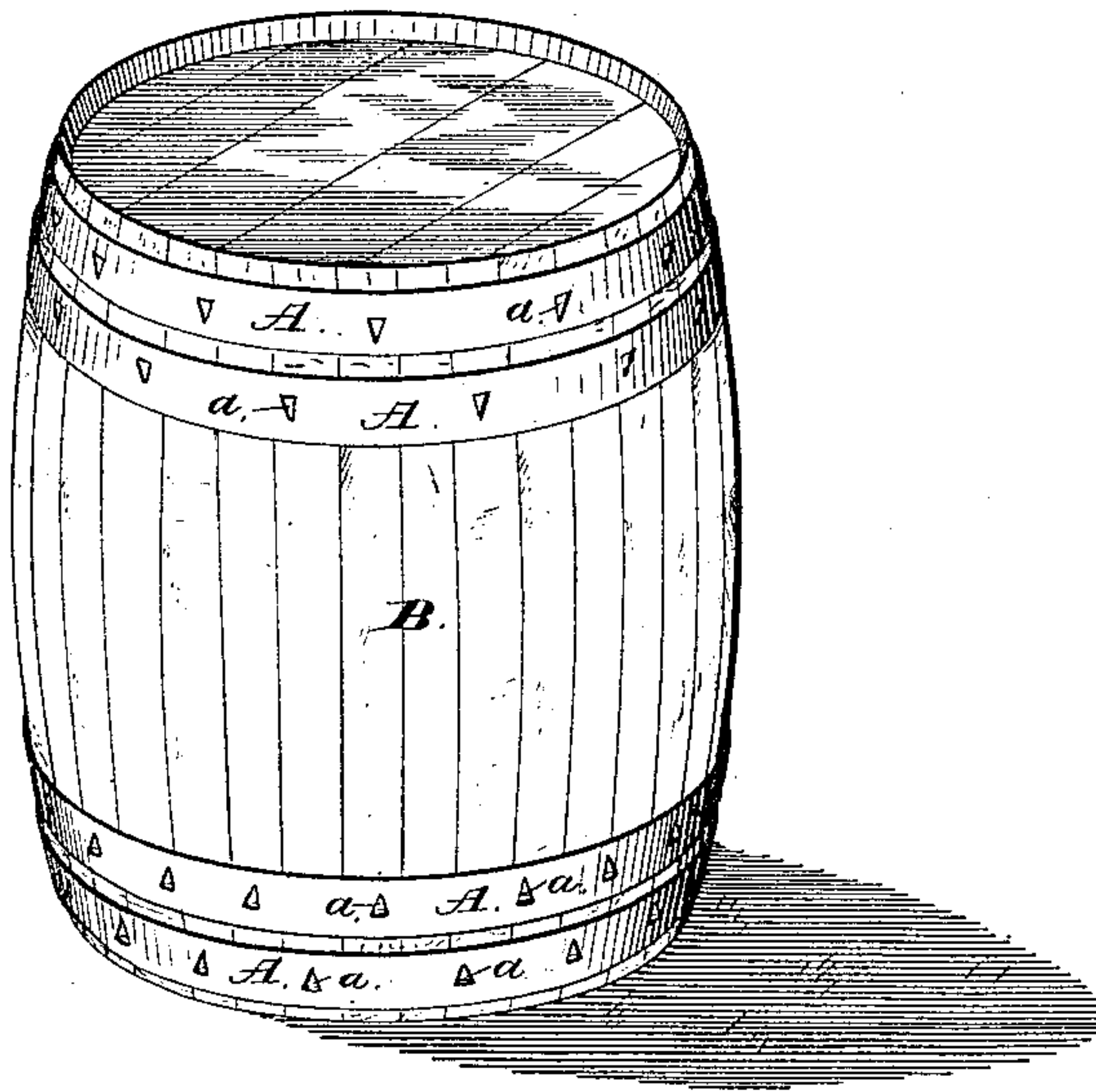


Fig. 2.



Witnesses:

Jas. E. Hutchinson
Henry C. Hazard

Inventor.

Nelson Newman, by
Crindle and Russell, his Attys

UNITED STATES PATENT OFFICE,

NELSON NEWMAN, OF SPRINGFIELD, ILLINOIS, ASSIGNOR TO THE ADVERTISING ALARM SIGN COMPANY, OF SAME PLACE.

HOOP-FASTENER.

SPECIFICATION forming part of Letters Patent No. 338,644, dated March 23, 1886.

Application filed January 25, 1884. Serial No. 118,734. (No model.)

To all whom it may concern:

Be it known that I, NELSON NEWMAN, of Springfield, in the county of Sangamon, and in the State of Illinois, have invented certain
5 new and useful Improvements in Hoop-Fasteners; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of my improved hoop before being placed upon a barrel; and Fig. 2 is a like view of a barrel provided with hoops of like construction.

15 Letters of like name and kind refer to like parts in each of the figures.

The design of my invention is to insure the retention in position of hoops upon barrels, tubs, and other like articles; to which end said
20 invention consists in a hoop having formed upon its inner side lugs or projections, which are adapted to engage with the underlying surface and prevent said hoop from moving in the direction necessary for displacement,
25 substantially as hereinafter specified.

In the annexed drawings, A represents a hoop which is constructed from metal, and has such size and shape as to adapt it for application to the article for which it is intended.
30 At suitable points around the inner face of the hoop A are lugs *a*, which project inward and toward the chine edge of said loop, and are formed by bending or punching the metal from the outer side inward. Said lugs
35 have each an inward and rearward inclination, and at their rear ends are vertical to the plane of said hoop, as seen in Fig. 1.

The hoop thus constructed is driven upon a barrel, B, or other like article, in the usual manner, when it will be found that while its lugs
40 *a* will pass freely over the surface of said barrel, while said hoop is being moved forward they will engage with said surface and prevent a rearward movement of the same.

Should a hoop become loose from the shrinkage of the wood of the vessel, it may be readily tightened again by being driven forward in the usual manner; but under no circumstances can it become loosened by a rearward motion, nor is such motion practicable without breakage. 45 50

The construction described affords an effectual safeguard against such accidents as result from the displacement of hoops, without materially increasing the cost of the same. 55 The lugs *a* may be made in the iron before the latter is cut up for hoops, or they may be made after said hoops are otherwise completed, or even after they are in place upon a barrel.

The projections on my hoop, formed and shaped as described and shown, are adapted to resist most strongly any pressure from the inside. Being arched, they are prevented from any possibility of being bent back flush with the inside of the hoop, as teeth formed
60 by bending in tongues of the metal detached from the main part at one end and at the sides would be liable to be. 65

Having thus fully set forth the nature and merits of my invention, what I claim as new is— 70

1. The improved hoop for barrels, tubs, and other like articles, having on its inner face ratchet-shaped teeth rounded in cross-section, substantially as and for the purpose described. 75

2. The improved hoop for barrels and the like, having portions punched in so as to form on the inner side ratchet-shaped projections with their abrupt ends toward the rear or outer edge of the hoop, substantially as and
80 for the purpose described.

In testimony that I claim the foregoing I have hereunto set my hand this 8th day of January, 1884.

NELSON NEWMAN.

Witnesses:

JOHN MCCONNELL,
ISAAC A. HAWLEY.