E. I. BRADDOCK.

BARREL HOOP.

APPLICATION FILED AUG. 19, 1912.

1,053,151. Patented Feb. 18, 1913.

Fig. 1.

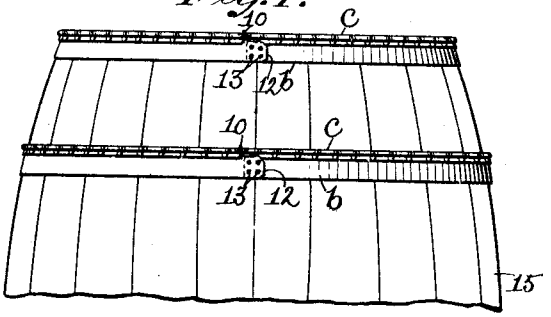

Fig. 2.

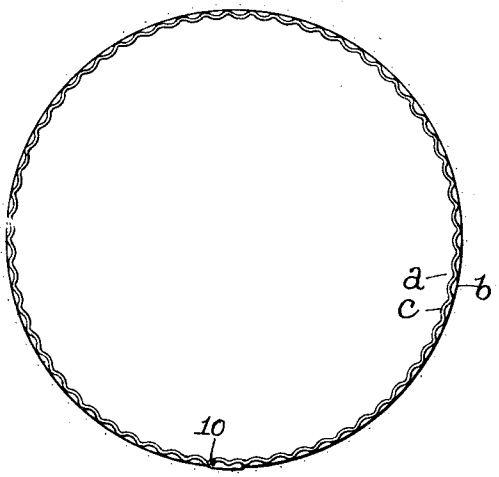

Fig. 3.

Fig. 4.

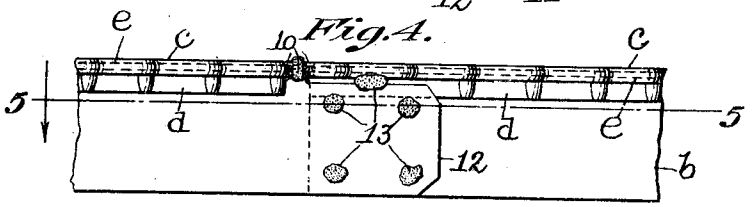

Fig. 5.

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UNITED STATES PATENT OFFICE.

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BARREL-HOOP.

1,053,151. Specification of Letters Patent. Patented Feb. 18, 1913.

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To all whom it may concern:

Be it known that I, EDWARD I. BRADDOCK, a citizen of the United States, residing in Winchester, county of Middlesex, and State of Massachusetts, have invented an Improvement in Barrel-Hoops, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention relates to a metal hoop for barrels, tubs, pails and the like, and has for its object to provide a metal hoop, which is light, inexpensive, strong and especially applicable for use as a chime hoop. To this end, the hoop is made from a sheet metal band or strip, provided at one edge with a fold which forms a hollow bead within which is located a reinforcing wire, whose ends are welded together and also to the sheet metal, whereby a very strong, light and inexpensive hoop is obtained.

Figure 1 is an elevation of a portion of a barrel provided with a hoop embodying this invention. Fig. 2 a plan of the hoop shown in Fig. 1. Fig. 3 a detail in plan on an enlarged scale of a portion of the hoop shown in Fig. 1. Fig. 4 an elevation of the portion of the hoop shown in Fig. 3 and Fig. 5 a section on the line 5—5 Fig. 4.

Referring to the drawing *a* represents a metal hoop embodying this invention and comprising a sheet metal band or strip *b* provided at one edge with a fold to form a hollow bead *c* preferably circular in cross section and from which extends a flange or lip *d*, which contacts with the body portion of the sheet metal hoop. The bead *c* contains within it a wire *e*, which acts to reinforce said bead and is made of sufficient length so that its ends may be brought into contact with each other and be welded together and also to the bead *c* at the ends thereof, as indicated by the stippling 10. The ends of the wire *e* may be welded together in any suitable or desired manner but preferably by means of electricity. The body portion of the sheet metal hoop may have one end reduced in width to form a flap 12, which is designed to overlap the other end of the body portion below the fold *c* thereof, and said flap may be secured to the end of the body portion which it overlaps in any suitable manner but preferably by welding the flap to the body portion in spots 13.

From the above description it will be seen that the sheet metal hoop is materially strengthened by the continuous wire hoop inclosed within the bead and formed by welding the ends of the wire *e* together, and said sheet metal hoop is still further strengthened by welding the wire hoop to it.

The folding edge of the sheet metal hoop and the reinforcing wire *e* may and preferably will be crimped or corrugated to form projections 14, which extend away from the barrel 15 and afford surfaces for a hammer or other tool to strike against, when the hoop is being driven onto the barrel. The reinforced sheet metal hoop is especially adapted among other uses to be employed as a chime hoop, as the folded edge reinforced by a wire hoop strengthens the same to such extent as to enable it to withstand a severe blow.

It will be observed that when the ends of the reinforcing wire *e* are welded together, there is found within the fold or bead *c* a welded wire hoop, which is continuous and of itself is capable of withstanding a substantially great strain, and consequently the reinforced sheet metal hoop is greatly strengthened thereby which enables lighter stock to be employed and the cost of the sheet metal hoops to be materially reduced.

In the present instance, the ends of the wire *e* are represented as abutting, but it is not desired to limit the invention in this respect, for if desired, the ends of the wire and of the sheet metal band may overlap and be welded together.

Claims:

1. A metal hoop comprising a sheet metal band provided at one edge with a fold to form a hollow bead having its ends welded together and provided below said bead with a body portion having one end reduced in width to form a flap which overlaps the other end of said body portion and is secured thereto, and a reinforcing wire within the hollow bead having its ends welded together and to the opposite ends of the hollow bead.

2. A metal hoop comprising a sheet metal

band provided at one edge with a fold to form a hollow bead and having its ends overlapping and welded together, and a reinforcing wire within said hollow bead having its ends welded together and to the hollow bead.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD I. BRADDOCK.

Witnesses:
JAS. H. CHURCHILL,
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