

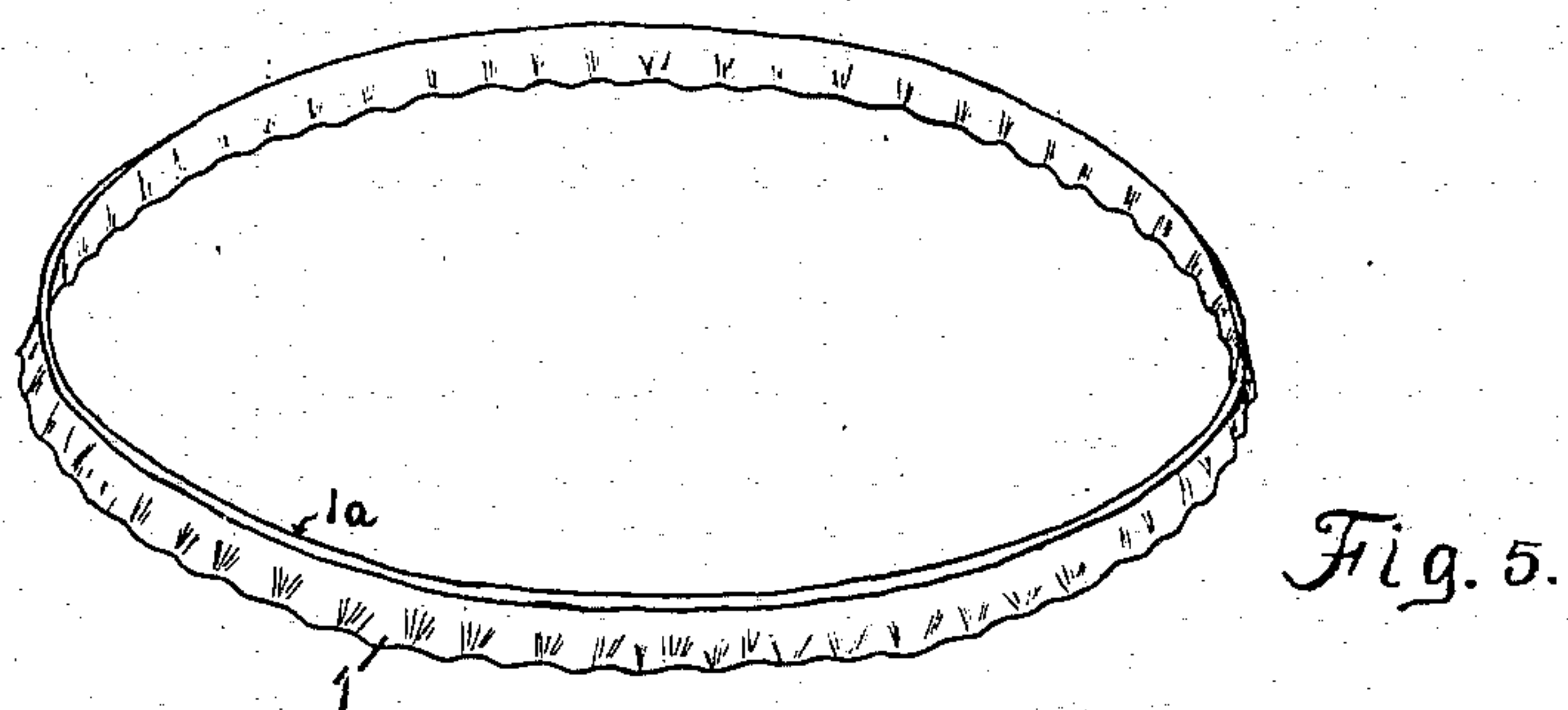
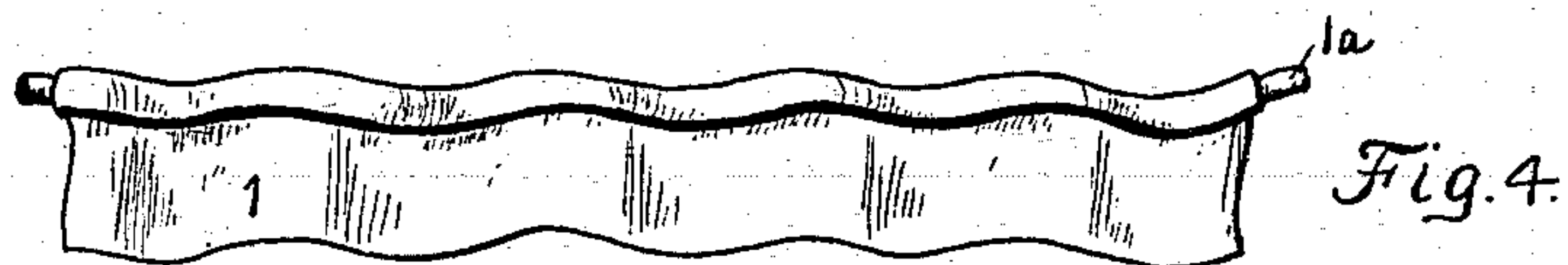
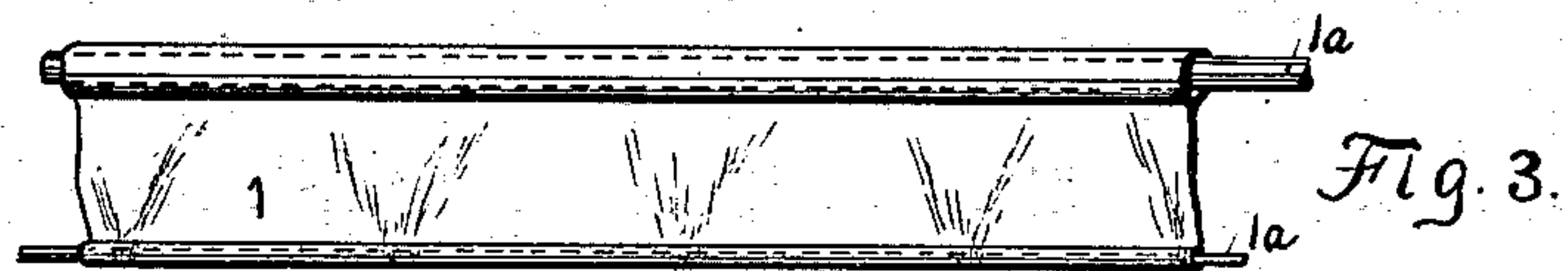
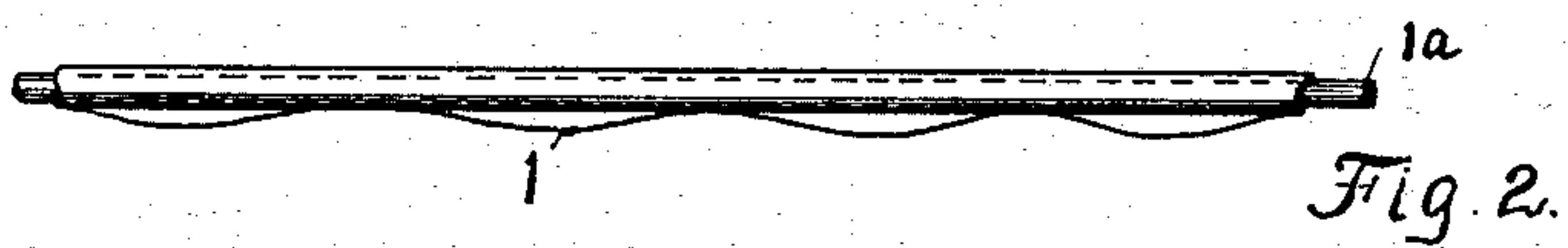
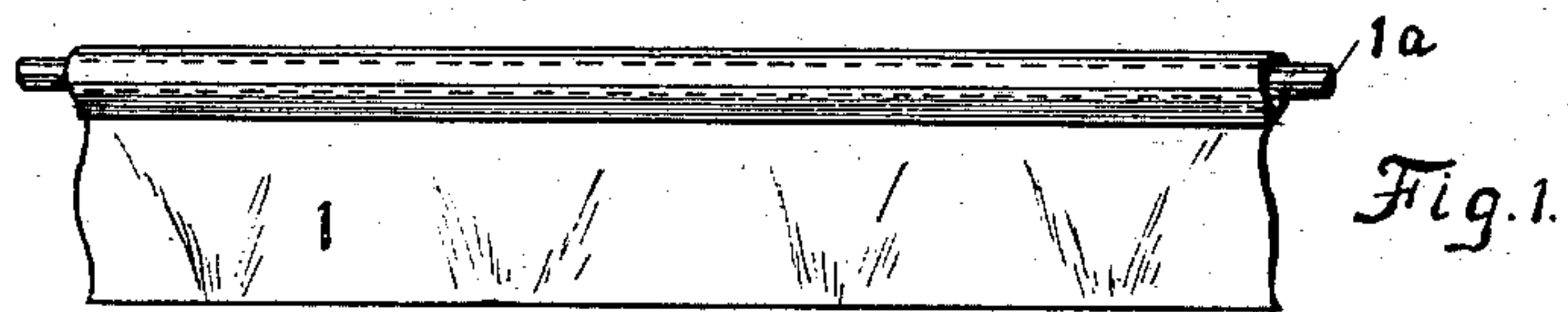
No. 651,914.

Patented June 19, 1900.

J. E. WRIGHT.
METAL HOOP.

(Application filed July 29, 1899.)

(No Model.)



WITNESSES:

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INVENTOR

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UNITED STATES PATENT OFFICE.

JAMES E. WRIGHT, OF WEST BAY CITY, MICHIGAN.

METAL HOOP.

SPECIFICATION forming part of Letters Patent No. 651,914, dated June 19, 1900.

Application filed July 29, 1899. Serial No. 725,462. (No model.)

To all whom it may concern:

Be it known that I, JAMES E. WRIGHT, a citizen of the United States, residing at West Bay City, in the county of Bay and State of Michigan, have invented certain new and useful Improvements in Metal Hoops; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention is a metal barrel-hoop; and the improvement consists in certain means and devices whereby I attain the objects of my invention, which are, first, to provide a longitudinal stiffening-rim along one or both edges of the hoop that can be easily made from a thin strip of metal and a wire; second, to transversely corrugate the lower part of the metal strip that forms the body of the hoop after the manner described in my pending application, Serial No. 723,817, and to effect this corrugation without causing the straight band from which the hoop is made to assume a curved or bowed form, and, third, to produce a barrel-hoop having a thin body portion adapted to fit itself to the shape of the barrel by driving and having a heavier upper edge to receive the impact of the driving-tool and to impart stiffness and strength to the hoop, while leaving no sharp edges or projections and to permit of driving one hoop on top of another. I accomplish these objects by the means illustrated in the accompanying drawings, throughout the several views of which similar numerals of reference designate corresponding parts and devices.

In the drawings, Figure 1 is a side view of a section of the hoop. Fig. 2 is a bottom view of Fig. 1. Figs. 3 and 4 are side elevations of modified forms of my invention. Fig. 5 shows a complete hoop.

As is plainly shown in the drawings, the hoop consists of a thin metal band 1, having a wire 1^a rolled in its edge to stiffen and strengthen it. The lower portion of the band is stretched, preferably by passing it between suitable rolls, and the stretched edge is then crimped or corrugated. The corrugation of the lower part of the band permits the lower edge of the hoop to expand, and thus to shape itself to the barrel. It further-

more serves a useful purpose in keeping the finished hoop material in straight lengths. If the lower part of the band were stretched without corrugating it sufficiently to take up the amount of stretch, the band instead of being straight would curve, and thus be inconvenient to handle or to ship. The stiffening edge, formed by rolling the wire in the edge of the band, produces a firm smooth rim to take the blows of the driving-tool and permits of driving one hoop on the top of another, if desired.

By this construction I produce a hoop that can be made of very light sheet metal and that has great strength and durability. It has no projecting parts against which articles may catch. The corrugated lower part readily expands to the form of the barrel and fits it tightly. It is evident that, if desired, a wire may be rolled into the expanded lower edge also, as is shown in Fig. 3, although in practice I prefer the construction shown in Figs. 1 and 2. The corrugations may extend up to and include the wire stiffening edge also, if desired, after the manner shown in my pending application, Serial No. 723,817, above referred to. Fig. 4 shows such a construction. In this case the wire is preferably so strong that it does not stretch in driving; but the thin corrugated lower edge expands, thus enlarging the lower part of the hoop and making it conform to the shape of the barrel.

I consider the constructions shown in the various figures and also their mechanical equivalents to be within the scope of my invention, the stiffening edge combined with the stretched and corrugated band being the essential feature of each.

What I claim as my invention, and desire to secure by Letters Patent, is as follows:

A metal hoop comprising a thin band, a wire rolled in the edge of the band, the lower edge of the band being stretched and provided with transverse corrugations, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES E. WRIGHT.

Witnesses:

GEO. B. WILLCOX,
L. G. WILLCOX.