No. 615,339. Patented Dec. 6, 1898.

J. BERBECKER.

CURTAIN RING.

(No Model.)

(Application filed July 8, 1897.)

Fig. 1.

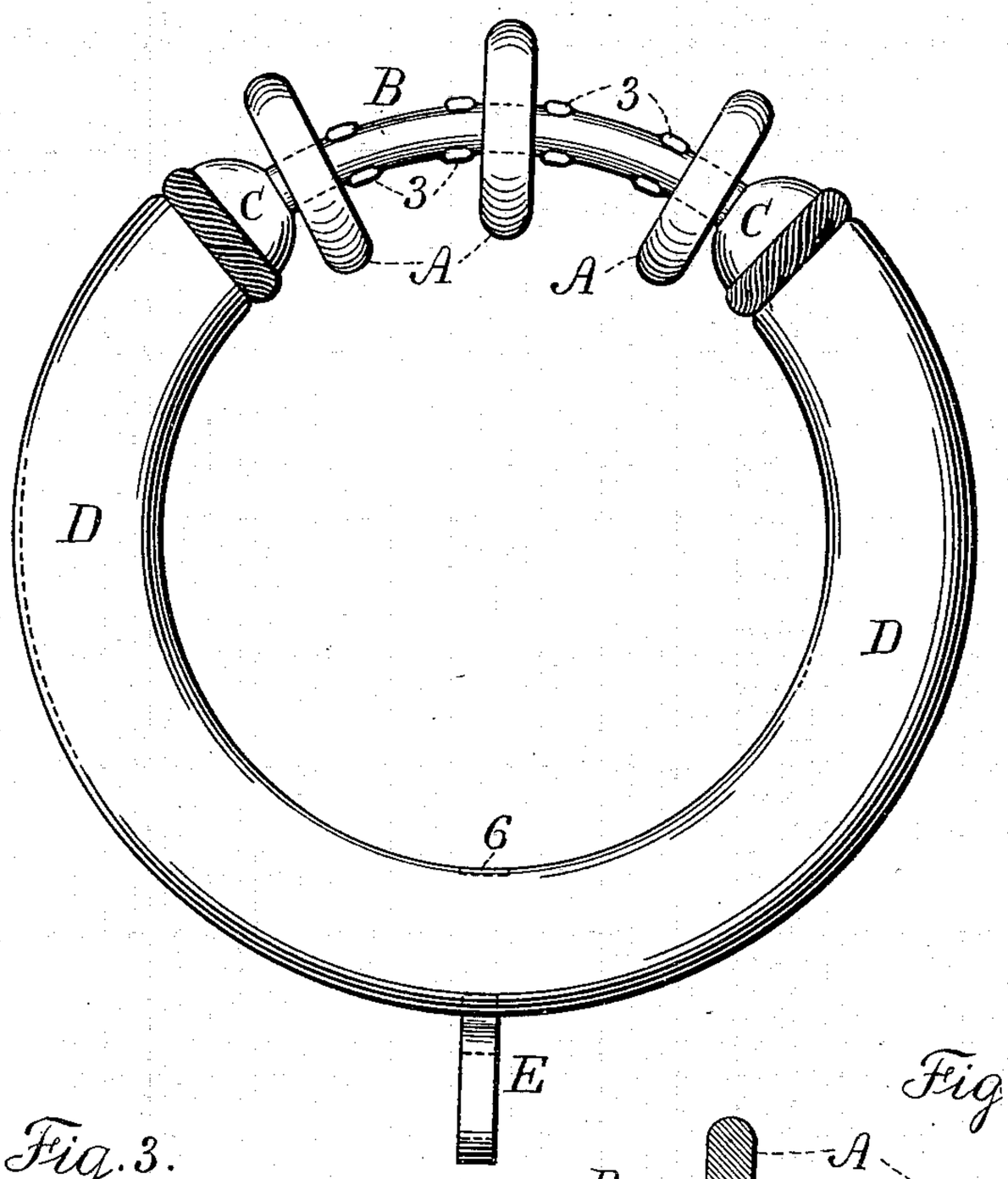


Fig. 3.

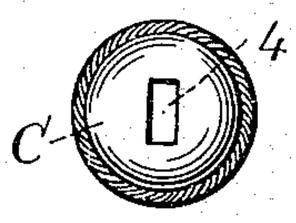
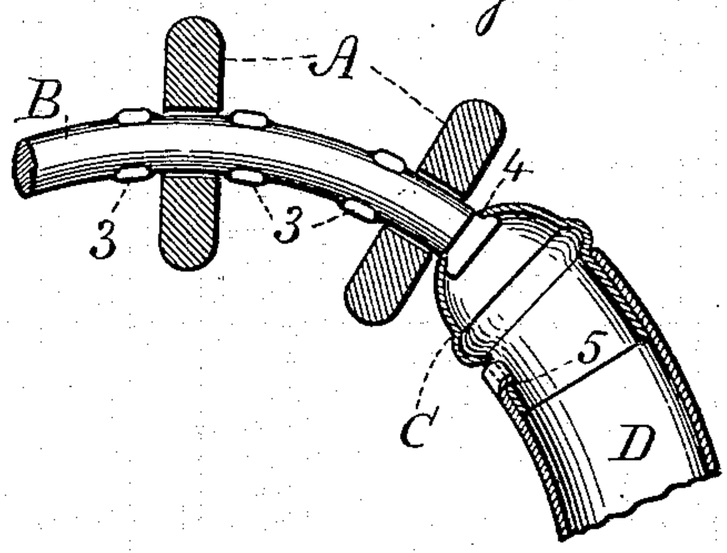


Fig. 2.



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UNITED STATES PATENT OFFICE.

JULIUS BERBECKER, OF WATERBURY, CONNECTICUT.

CURTAIN-RING.

SPECIFICATION forming part of Letters Patent No. 615,339, dated December 6, 1898.

Application filed July 8, 1897. Serial No. 643,840. (No model.)

To all whom it may concern:

Be it known that I, JULIUS BERBECKER, a citizen of the United States, residing at Waterbury, in the county of New Haven and State of Connecticut, have invented an Improvement in Curtain-Rings, of which the following is a specification.

Curtain-rings have been made of sheet metal bent up as a circular tube and rollers or wheels have been applied to such curtain-ring in various ways for resting upon and running over the curtain-pole, and in some instances the tubular ring has been made in parts or sections, with the wheels intervening and supported upon wires, and mast-hoops have been made of wire, with rollers or wheels upon the same for lessening the friction of the hoop against the mast.

The present invention is made for lessening the expense of constructing the pivotal supports for the wheels or rollers in the curtain-ring and for lessening the friction; and with these objects in view the wheels or rollers are threaded upon the wire ring or segment and spurs are thrown out from the wire at the sides of the wheels or rollers for holding such wheels or rollers in position laterally and for allowing them to revolve freely upon the wire as an arbor or pivot, and in connecting the wire to the tubular sheet-metal ring I provide tubular sockets for receiving the ends of the wire that are preferably square, such sockets passing into the ends of the tubular ring and being held therein by the sheet metal of such ring being pressed into holes in the sockets.

In the drawings, Figure 1 is an elevation of a curtain-ring complete. Fig. 2 is a section of one socket for the end of the tubular ring or segment, and Fig. 3 is an end view of such hollow socket.

The wheels or rollers A are of any desired size and shape, and they are threaded upon the wire B, and the spurs 3 are thrown out from the wire at the sides of the wheels or rollers for keeping such wheels or rollers in their proper position upon the wire B and for allowing the wheels or rollers to revolve freely. These spurs 3 are easily formed by pressure from suitable dies. There is but little friction, as the wire B is as small as consistent with strength.

The wire B is an arc of a circle and passes at its ends into the tubular sockets C, and these are received into the ends of the hollow sheet-metal ring D, such ring being segmental for receiving the wire and the sockets.

It is advantageous to flatten or square the ends of the wire B and to pass them into the similar-shaped holes 4 in the ends of the tubular sockets C, and the wire may be soldered or riveted into these sockets, but usually it is unnecessary.

The sockets C are made rounding at the end, and the tubular portions that pass into the ends of the hollow sheet-metal ring D are provided with holes at 5, and these holes preferably are at the interior portion of the curtain-ring in line with the edges of the sheet metal that are brought together, so that after the sockets C have been inserted into the ends of the hollow sheet-metal ring D the sheet metal can be easily pressed into the holes 5 by a suitable instrument, as represented, so as to connect the tubular sockets permanently to the ends of the hollow sheet-metal ring D.

It is preferable not to use solder, so that the metal may not be discolored by the action of heat or an acid or flux employed in soldering.

The suspending-eye E is advantageously made of sheet metal, with a V-shaped shank passing up through a hole in the bottom of the ring D and spread within such ring by a suitable instrument or tool passed through a hole at 6.

I claim as my invention—

1. The combination in a curtain-ring with two or more rollers or wheels, of a wire passing through the same and integral spurs pressed up in the wire at the sides of the wheels for holding them in position, a sheet-metal tubular ring-section and sockets into which the ends of the wire pass, and which sockets are tubular for engaging the ends of the tubular ring-section, substantially as set forth.

2. The combination in a curtain-ring with the rollers or wheels, of a wire passing through the same and upon which they turn, tubular sockets for receiving and holding the ends of the wire, a tubular sheet-metal ring-segment receiving the sockets, there being holes in the sockets into which the sheet metal of the ring is pressed for connecting the sockets and the ring, substantially as set forth.

Signed by me this 29th day of June, 1897.

JULIUS BERBECKER.

Witnesses:

JAS. E. CAVANAGH,

CHAS. H. ANDRUS.