No. 636,443. Patented Nov. 7, 1899.

J. W. MORPETH.

CURTAIN ROLLER.

(Application filed Sept. 9, 1897.)

(No Model.)

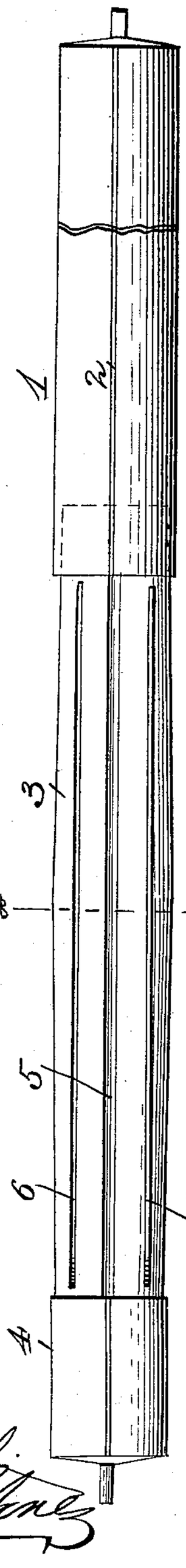

Fig. 1.

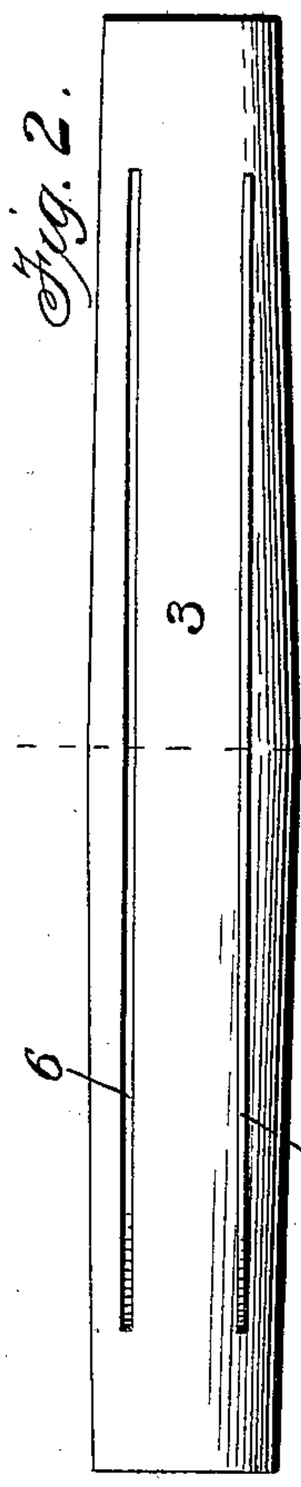

Fig. 2.

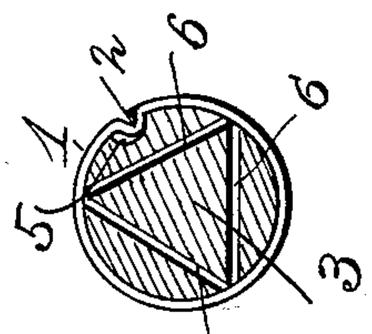

Fig. 3

Witnesses
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UNITED STATES PATENT OFFICE.

JOHN W. MORPETH, OF MUSKEGON, MICHIGAN.

CURTAIN-ROLLER.

SPECIFICATION forming part of Letters Patent No. 636,443, dated November 7, 1899.

Application filed September 9, 1897. Serial No. 651,126. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. MORPETH, a citizen of the United States, residing at Muskegon, in the county of Muskegon and State of Michigan, have invented certain new and useful Improvements in Curtain-Rollers; 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 relates to extensible curtain-rollers, and is designed as an improvement upon the invention set forth in an application for patent filed by me May 22, 1897, Serial No. 637,760, patented January 25, 1898, No. 597,730. In said application the invention consisted in a sheet-metal tube having a longitudinal crimp for the engagement of the edge of a curtain, a wooden extension fitting in said tube, formed with a series of longitudinal saw-kerfs meeting at the center and provided with a removable wedge. The object of such construction was to allow for the shrinking and swelling of the extension owing to climatic changes.

I have found that while preferable it is not necessary that the extension should be made of wood and also that it is not essential that the saw-kerfs or slots when the extension is made of metal should meet at the center.

To this end therefore the invention consists in a tube having a longitudinal crimp to receive the edge of the curtain, an extension formed with a slot to receive said crimp, and a series of londitudinal slots whereby said extension can expand and contract radially, so as to insure of its snugly fitting in the tube, as hereinafter fully described and claimed.

The great advantage of segmental slots, whether formed in wood or metal, is that a more springy action is obtained, and consequently a more perfect and easy clamping of the cylinders in their relation to each other results. It is apparent that where a thin leaf or sheet is cut from the main body of an article the spring and elasticity of the same are far more perfect than where a thick portion is severed. Another great advantage in my present invention is that the cuts or slots not extending to the ends of the extension insure a more ready assembling of the metallic tubes with relation to the same and prevent the extension from springing or falling apart in shipment, &c.

In the accompanying drawings, Figure 1 is an elevation of a curtain-roller constructed according to my invention. Fig. 2 is a similar view of the extension removed. Fig. 3 is a cross-section on the line *x x*, Fig. 1.

In the said drawings the reference-numeral 1 designates the ordinary tin or other sheet-metal tube, provided with a longitudinal crimp or depression 2 for receiving the end of the curtain.

The numeral 3 designates the cylindrical extension, which may be made of wood, metal, or other material, as found convenient or desirable. This extension fits into the tube 1 and at the opposite end is provided with a short tube 4, having a coinciding crimp or depression. A longitudinal groove 5 is formed in the extension extending from end to end, with which said crimps engage. Formed longitudinally in said extension are a number of slots 6, which extend nearly from end to end and which may extend partially or entirely through the same, as desired, the object of which is to allow the extension to expand and contract under climatic influences, so as to always snugly fit the tube and yet allow it to be readily adjusted with respect to the tube.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a curtain-roller, the combination with the cylindrical extension, of longitudinal, segmental slots formed in said extension and extending nearly to the ends of the same, a longitudinal groove formed in said extension, and a plurality of metal tubes formed with longitudinal crimps to engage the groove in the extension, substantially as described.

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

JOHN W. MORPETH.

Witnesses:
WM. CARPENTER,
DELIA PICHETTE.