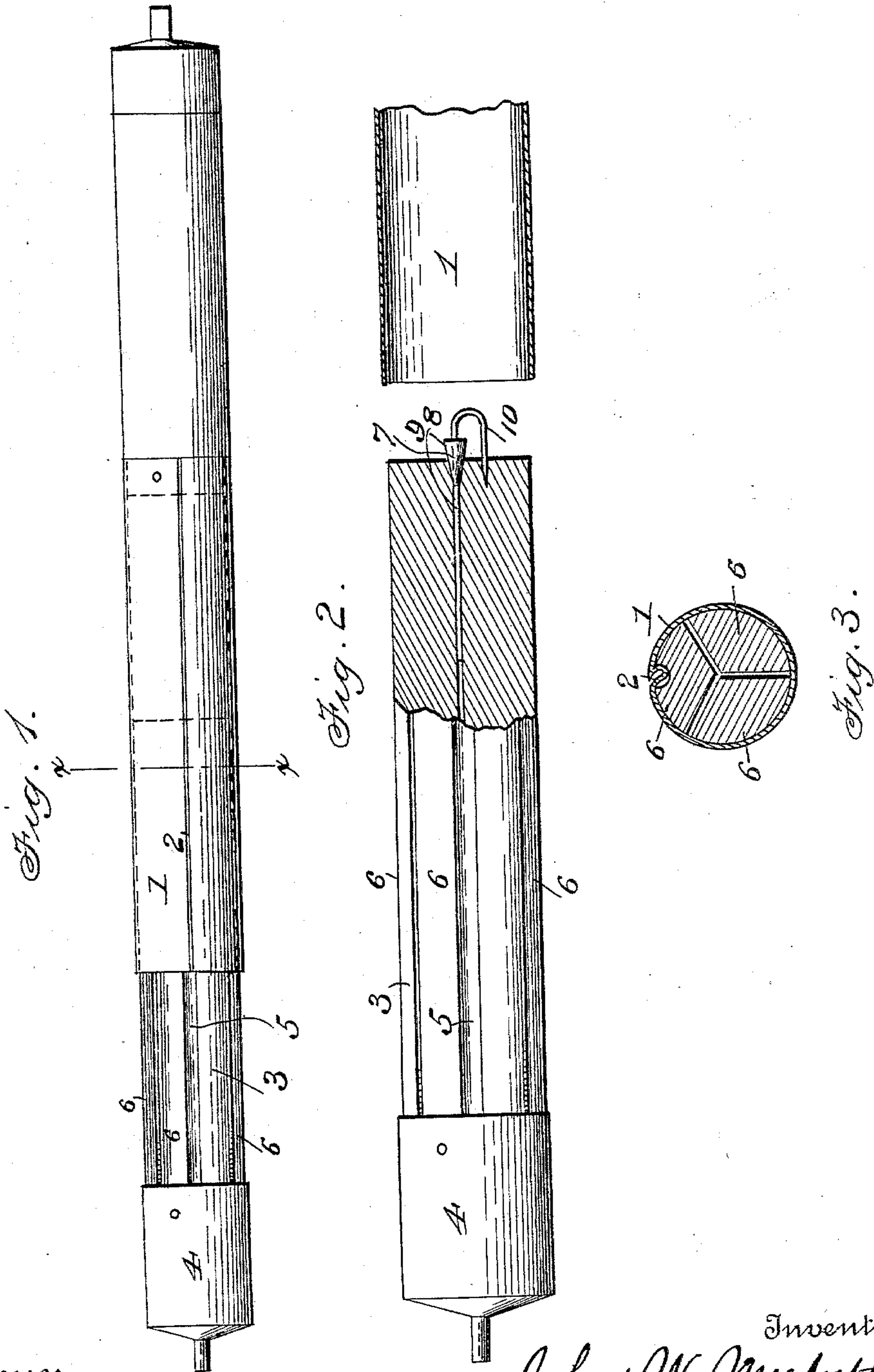


(No Model.)

J. W. MORPETH.
CURTAIN ROLLER.

No. 597,730.

Patented Jan. 25, 1898.



Witnesses
F. L. Orvand.
J. A. Paul.

Inventor
John W. Morpeth
per Charles W. Parker.
Attorney

UNITED STATES PATENT OFFICE.

JOHN W. MORPETH, OF MUSKEGON, MICHIGAN.

CURTAIN-ROLLER.

SPECIFICATION forming part of Letters Patent No. 597,730, dated January 25, 1898.

Application filed May 22, 1897. Serial No. 637,760. (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 of that class or description which consist of a sheet-metal tube having a longitudinal crimp with which the end of the curtain engages, a wooden extension fitting in said tube, and a small tube on the outer end thereof having a coinciding crimp. In these rollers by reason of atmospheric changes the wooden extension shrinks and swells, which is a very serious defect. If adjusted when the roller leaves the factory so that the wooden extension fits the tin tube or cylinder, it will swell in an atmosphere containing much moisture, rendering it liable to burst the joint of the tube or be too tight to allow of pulling it out. On the other hand, in a dry atmosphere the extension will shrink and sag, which will cause the curtain to wrinkle.

The present invention is designed to avoid the above objection; and it consists in forming the wooden extension with a series of longitudinal saw-kerfs and provided with a wedge inserted between the meeting-points of the kerfs, as hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a curtain-roller constructed according to my invention. Fig. 2 is a similar view showing the wooden extension removed from the tube. 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 wooden cylindrical extension, having a short tube 4 at the outer end formed with a coinciding crimp or depression. This extension is provided with a longitudinal groove 5, in which said crimps engage. Formed longitudinally in the said extension are a number of saw-kerfs or slots, which meet at the center, forming a number of sections 6. There are three of these kerfs shown in the present instance, and consequently three sections 6, although more or less may be formed, as desired. Driven centrally in the inner end of the extension is a wedge 7, by which the sections may be spread apart. The wedge in the present instance consists of a pointed metal rod 8, having a wedge-shaped projection 9 at the outer end and a backwardly-bent portion 10 with a pointed end adapted to be driven into the extension, whereby it is held in place. When the wood of the extension shrinks, the wedge is driven in, spreading the sections, so that they will properly fit the tube. When the wood swells, the wedge is removed to enable the sections to yield.

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

1. The combination with the sheet-metal tube, of the wooden extension fitting therein formed with longitudinal saw-kerfs meeting at the center and a removable wedge, substantially as described.

2. The combination with the sheet-metal tube, the wooden extension fitting therein, formed with a number of longitudinal saw-kerfs meeting at the center, of a removable wedge driven into said saw-kerfs, substantially as described.

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

JOHN W. MORPETH.

Witnesses:

WM. CARPENTER,
JAMES GOW.