

No. 714,980.

Patented Dec. 2, 1902.

W. WEGNER.
CURTAIN FIXTURE.

(Application filed Mar. 24, 1902.)

(No Model.)

Fig. 1.

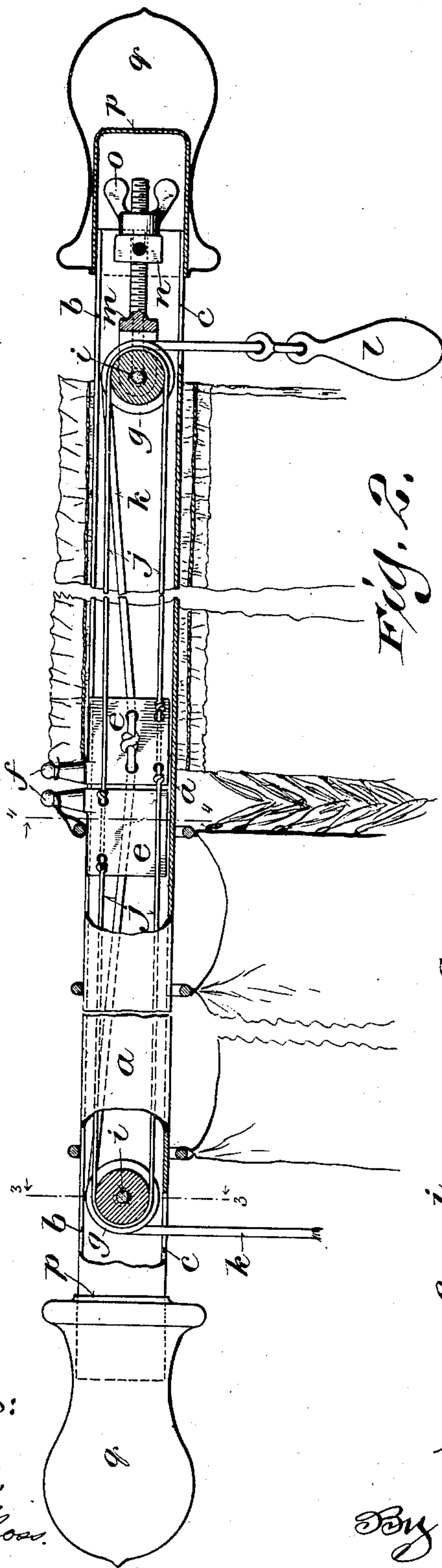


Fig. 2.

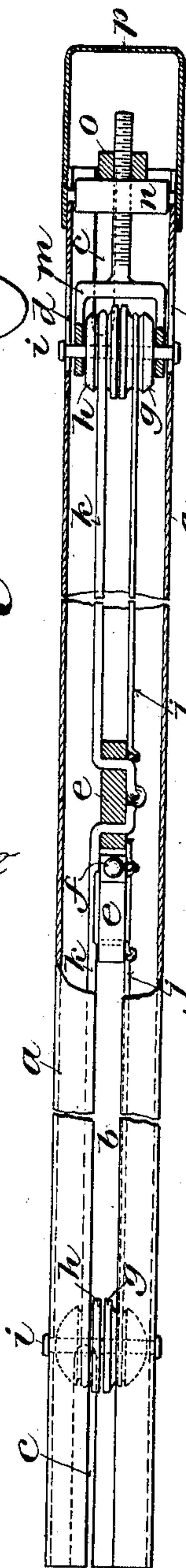


Fig. 3.

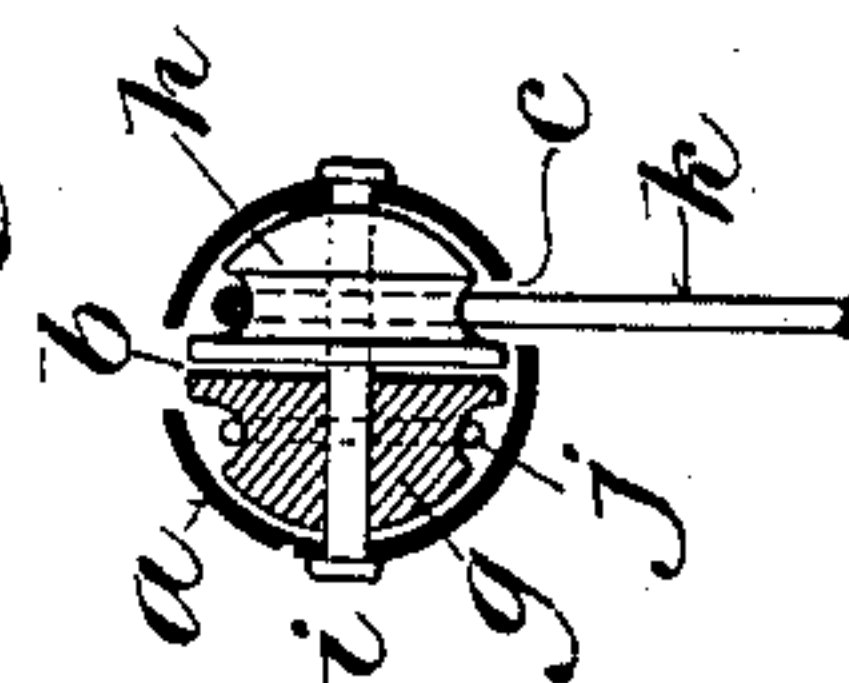
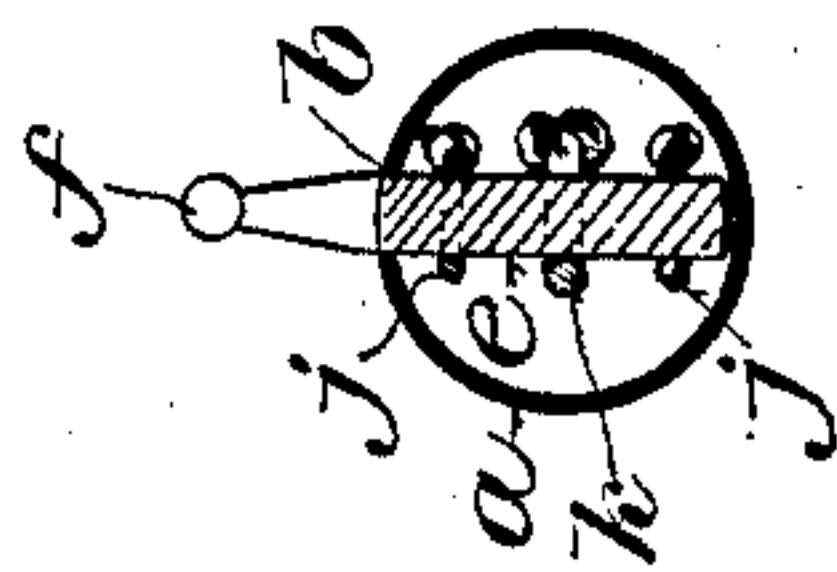


Fig. 4.



Witnesses:
Geo. W. Young,
Char. L. Goss.

Inventor:
William Wegner,
By Winkler Flinders Smith Boston Vt.,
Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM WEGNER, OF MILWAUKEE, WISCONSIN.

CURTAIN-FIXTURE.

SPECIFICATION forming part of Letters Patent No. 714,980, dated December 2, 1902.

Application filed March 24, 1902. Serial No. 99,658. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM WEGNER, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Curtain-Fixtures, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof.

10 This invention relates particularly to devices for operating curtains which are hung in pairs. Its main objects are to simultaneously move a pair of curtains in opposite directions toward and from the center of the opening in or adjacent to which they are hung, to facilitate hanging and operating curtains so arranged, and generally to improve the construction and operation of devices of this class.

20 It consists in certain novel features of construction and in the arrangement and combinations of parts hereinafter particularly described, and pointed out in the claims.

In the accompanying drawings like letters 25 designate the same parts in the several figures.

Figure 1 is a side view, partly in elevation and partly in vertical longitudinal section, of a curtain-fixture embodying my improvements. Fig. 2 is a plan and horizontal section of the same, the end pieces or ornaments being omitted; and Figs. 3 and 4 are cross-sections on the lines 3 3 and 4 4, respectively, Fig. 1.

30 *a* is a tubular rod or pole, preferably made of metal. It is formed with a longitudinal slot *b* in the top, preferably extending the entire length of the rod or pole. It is also formed at the bottom with slotted openings *c*, extending through the ends, and in the sides 40 with slots *d*.

e e are slides or blocks loosely fitted within the rod *a* and formed or provided with posts or projections *f*, which extend upwardly through the slot *b* for the attachment of curtains, as shown in Fig. 1.

g and *h* are grooved pulleys mounted in pairs within the tubular rod *a* on cross-pins *i* at or near each end of said rod.

50 *j* is a cord or belt passing around the pulleys *g* and attached on one side to one of the slides *e* and on the other side to the other slide. This cord or belt may be conveniently

attached to said slides by passing it through holes in the slides and forming knots next to the holes, as shown in the drawings. It is 55 thus made to serve as a guide to hold the slides in proper position in the rod *a*.

k is an operating-cord attached to one of the slides and passing therefrom in opposite directions over the pulleys *h* through the 60 slotted openings *c* in the tubular rod *a*, the ends of said cord being provided with detachable handles *l* within convenient reach.

m is a yoke formed with a threaded stem which passes loosely through a cross-bar *n* at 65 one end of the curtain-rod and is provided on the outer side of said bar with an adjusting-nut *o*.

The cross-bar *n* is preferably formed at the ends with pintles, which are inserted and 70 held in short slots opening through the end of the rod *a*. This permits the bar to oscillate and prevents its binding on the threaded stem of the yoke *m*.

The pin *i*, on which the adjacent pair of 75 pulleys is mounted, passes through this yoke and is guided at the ends in the slots *d*. Each pair of grooved pulleys *g* and *h* is approximately spherical in form, corresponding in contour with the internal diameter of the tu- 80 bular rod *a*, as shown in Figs. 2 and 3.

Upon the ends of the tubular rod *a* are removably fitted plain smooth caps *p*, and on these caps are detachably fitted the knobs or ornaments *q*. The rod *a* is adapted to be sup- 85 ported in the usual way by brackets of any suitable form. The curtains may be hemmed and drawn over the rod *a*, as shown at the right in Fig. 1, or may be suspended therefrom by rings, as shown at the left in the 90 same figure.

To place the curtains on the rod *a*, the caps *p* and end ornaments *q* are removed, the handles *l* are detached from the ends of the operating-cord *k*, which are coiled up and tucked 95 into the open ends of the curtain-rod, and the caps *p*, without the ornaments *q*, are then replaced, as shown at the right in Fig. 2, so as to present smooth ends, over which the curtains may be drawn. 100

When the fixture is put up and adjusted, as shown in Fig. 1, the curtains hung thereon may be simultaneously drawn back and forth in opposite directions by simply pulling on

the handles *l* at opposite ends of the operating-cord *k*. By pulling on the handle at the right, as shown in Fig. 1, the curtains will be drawn from the center toward the ends of the rod *a*, and by pulling on the handle at the left they will be drawn back over the window or door opening. The movement imparted to one of the slides *e* through the operating-cord *k* is communicated in an opposite direction to the other slide through the cord or belt *j*, passing over the pulleys *g*. The cord or belt *j* is tightened, so that it will not slip on the pulleys *g*, by means of the adjusting-nut *o*, access to which is had by removing the adjacent cap *p* and ornament *q*.

A fixture constructed as herein shown and described is light, strong, and durable, is as easily put up as an ordinary fixture, and enables a person to readily draw the curtains over or away from a window or door opening without climbing upon a chair or step-ladder.

Various changes in minor details of construction may be made without departing from the principle and intended scope of the invention.

I claim—

1. The combination with a tubular and longitudinally-slotted curtain-rod, of a pair of slides fitted in said rod, pulleys arranged in pairs within said rod near its ends, an endless cord or belt passing around one of the pulleys of each pair and connected on one side with one slide and on the other side with the other slide, and an operating-cord attached to one of the slides and passing therefrom in opposite directions over the remaining pulleys and through openings in said rod at its ends, substantially as described.

2. The combination with a tubular and longitudinally-slotted curtain-rod, of slides fitted therein, grooved pulleys mounted in pairs on cross-pins in each end of said rod, each pair of pulleys being approximately spherical and corresponding in general contour with the interior of said tubular rod, a cord passing around one pulley of each pair and attached on one side to one slide and on the other side to the other slide, and an operating-cord attached to one of the slides and passing therefrom over the remaining pulleys and through openings in said rod, substantially as described.

3. The combination with a slotted tubular curtain-rod, of two slides fitted therein and having projections for attachment to curtains outside of the rod, pulleys arranged within said rod near its ends, and an endless cord passing around said pulleys and attached on

one side to one of the slides and on the other side to the other slide, one of said pulleys being adjustable lengthwise of said rod with reference to the other pulley for tightening said cord, substantially as described.

4. The combination with a slotted tubular curtain-rod, of two slides fitted therein, pulleys arranged within said rod near its ends, an operating-cord attached to one of said slides and passing therefrom in opposite directions over said pulleys and through openings in the under side and at both ends of said rod, said openings extending through the ends of the rod, and smooth caps removably fitted over the ends of the rod, substantially as described.

5. The combination with a slotted tubular curtain-rod, of slides fitted therein and provided with means for the attachment of curtains thereto, pulleys arranged within said rod near its ends, a cord or belt passing around said pulleys and attached on one side to one slide and on the other side to the other slide, and a yoke connected with one of said pulleys and having a screw-threaded stem which passes loosely through a cross-bar in said rod and is provided on the outer side of said bar with an adjusting-nut, substantially as described.

6. The combination with a slotted tubular curtain-rod, of slides fitted therein, pulleys mounted within said rod on cross-pins near its ends, a yoke having a screw-threaded stem passing loosely through a cross-bar in one end of said rod and provided with an adjusting-nut, one of said pins passing through said yoke into guiding-slots in said rod, and a removable cap fitted over the end of said rod in which said yoke is located, substantially as described.

7. The combination with a slotted tubular curtain-rod, of slides fitted therein and having projections extending through the slot in said rod, means for moving said slides simultaneously in opposite directions comprising pulleys and a cord or flexible connection passing over said pulleys and through slots opening through both ends of said rod, removable caps fitted over the ends of said rod and of about the same diameter as the rod, and end ornaments detachably fitted on said caps, substantially as described.

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

WILLIAM WEGNER.

Witnesses:

CHAS. L. GOSS,
A. O. SMITH.