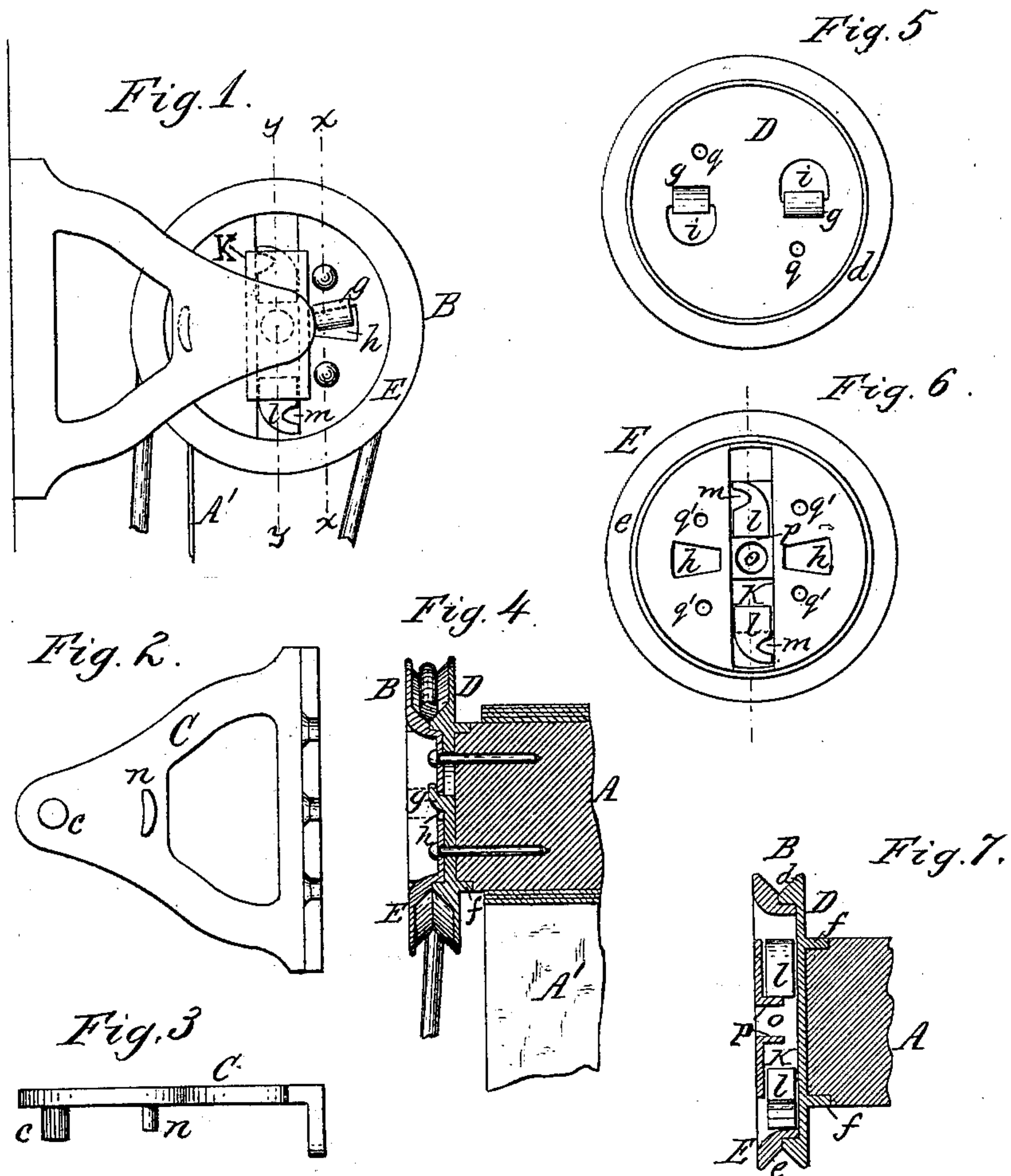


F. B. SCOTT.
Curtain-Fixture.

No. 225,725.

Patented Mar. 23, 1880.



Witnesses:
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UNITED STATES PATENT OFFICE.

FRANCIS B. SCOTT, OF BUFFALO, NEW YORK.

CURTAIN-FIXTURES.

SPECIFICATION forming part of Letters Patent No. 225,725, dated March 23, 1880.

Application filed July 3, 1879.

To all whom it may concern:

Be it known that I, FRANCIS B. SCOTT, of the city of Buffalo, in the county of Erie and State of New York, have invented a new and
5 useful Improvement in Curtain-Fixtures, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates more especially to that
10 class of curtain-fixtures which are used for supporting large or heavy window-shades, and which are provided with one or more automatic safety pawls or bolts, which are thrown out by the centrifugal force when the curtain
15 is lowered with great speed, and by engaging against a fixed stop arrests the motion of the roller.

The object of my invention is to simplify and cheapen the construction of this class of
20 curtain-fixtures, and to render their operation more certain and reliable.

My invention consists in the peculiar construction of the cord-pulley and its automatic stop pawl or bolt, as will be hereinafter fully
25 set forth.

In the accompanying drawings, Figure 1 is an end elevation of my improved curtain-pulley supported in the bracket. Fig. 2 is an inside view of the bracket. Fig. 3 is a top view
30 thereof. Fig. 4 is a vertical section in line *x x*, Fig. 1. Fig. 5 is a face view of the inner plate of the curtain-pulley. Fig. 6 is a rear view of the outer plate thereof. Fig. 7 is a section in line *y y*, Fig. 1.

35 Like letters of reference designate like parts in the several figures.

A represents the curtain-roller; A', the curtain attached thereto; B, the cord-pulley, and C the bracket, provided on its inner side with
40 a journal-pin, *c*.

The cord-pulley is composed of an inner plate, D, and an outer plate, E, each having a beveled rim, *d e*, both of which form the V-shaped cord-groove when the plates D and E
45 are placed against each other.

f is a hub or cylindrical socket formed on the rear side of the inner plate, D, for receiving the end of the curtain-roller. *g g* are two projecting lugs or hooks arranged on the face
50 side of the inner plate, D, and having their ends bent, as shown. *h h* are two correspond-

ing openings formed in the outer plate, E, so as to permit the hooks *g* to pass through these openings, when, by slightly turning the inner plate in the proper direction, the bent ends of
55 the hooks will engage over the adjacent portions of the outer plate, E, and draw the two plates firmly together. *i* are openings formed in the inner plate, D, in front of the lugs *g*, to permit the pattern to be readily drawn from
60 the sand.

K is the chamber or case in which the sliding bolts *l* move. It is arranged diametrically on the face side of the outer plate, E, and made open on its rear side to permit the ready
65 insertion of the bolts *l* into the case, and to permit the pattern of the outer plate, E, to be readily drawn from the sand. The bolts or pawls *l* are inserted loosely in the chamber K, so as to slide therein freely. Each bolt *l* is
70 constructed on its face with a depression or notch, *m*, which comes in contact with the sharpened stop *n*, formed on the inner side of the bracket, and which positively prevents the bolt from slipping past the stop.

o is an opening formed in the bolt-chamber K and centrally on the pulley, for the reception of the journal-pin *c* of the bracket. *p* are stops or shoulders formed on the inner side of the chamber K, around the central opening,
80 *o*, to prevent the bolts *l* from sliding inward so far as to obstruct the opening *o*.

In order to apply the pulley to the curtain-roller, the bolts *l* are placed in the chamber K of the outer plate, E, as shown in Fig. 6. The
85 inner plate, D, is then secured to the plate E by means of the bent lugs *g*, as hereinbefore described. The end of the curtain-roller is then inserted in the socket *f* of the inner plate, D, when the pulley is secured to the roller by nails
90 or screws passing through openings *q q'* in the plates D E. The openings *i* on the inner plate may serve for two of the nail-holes. The nails or screws passing through the two plates not only serve to attach the pulley to the curtain-
95 roller, but also prevent one plate from turning upon the other, which would cause the unlocking or separation of the plates.

The bolts *l* can be placed in the chamber K so as to face either way, and the pulley is
100 thereby adapted to be used as a right or left hand pulley, as may be desired. The rear side

of the head of each bolt is curved or inclined so as to be readily pushed out of the way upon striking the fixed stop of the bracket when the curtain is being raised.

Upon lowering the curtain with ordinary speed, the bolt, being at the top, drops back into the chamber K by gravity when the chamber reaches its vertical position, and the bolts pass in this manner on the inner side of the fixed stop *n* without coming in contact therewith, and consequently do not interfere with the motion of the roller. When the speed of the curtain becomes so great as to endanger the curtain, the bolts are prevented, by the centrifugal force, from dropping back into the chamber K, and by striking against the fixed stop *n* stop the movement of the curtain. The latter may be locked in any desired position by bringing one of the pawls in contact with the stop *n*, and the endless cord is thereby relieved from the weight of the curtain.

The plates D and E and the bolts *l* are each readily molded and cast complete and put together without requiring any holes to be drilled or any fitting to be done, thereby rendering the device very simple and cheap of construction.

I claim as my invention—

1. A cord-pulley provided with a groove adapted to receive an endless cord, and one or more automatic sliding bolts, *l*, adapted to arrest the motion of the curtain by striking against a fixed stop, substantially as set forth. 30

2. A curtain-pulley composed of an inner plate, D, and an outer plate, E, provided with a chamber, K, made open at the back, for the reception of one or more sliding bolts, *l*, adapted to engage a stop, substantially as set forth. 35

3. A curtain-pulley composed of an inner plate, D, having bent lugs *g* arranged on its face, and an outer plate, E, having openings *h*, which permit the lugs *g* to pass through, when the two plates can be secured together by slightly turning one upon the other, substantially as set forth. 40

4. The combination, with the bracket C, having a journal-pin, *c*, and fixed stop on its inner side, of a cord-pulley, B, provided on its face with a projecting chamber, K, adapted to receive one or more sliding bolts, and having a central opening, *o*, for the insertion of the journal, substantially as set forth. 45

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