Brown & Gates,

Curtain Fixture.

NO. 111,723. Patented Feb. 14, 1871.

Fig. 1.

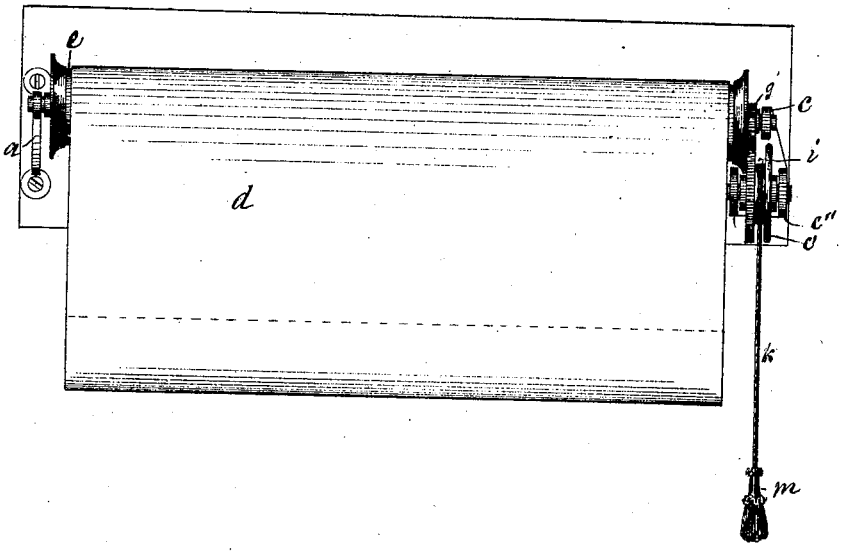
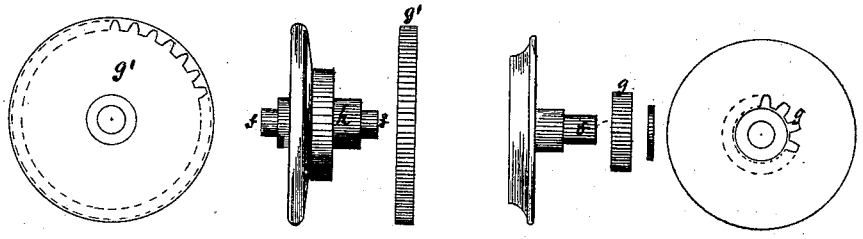
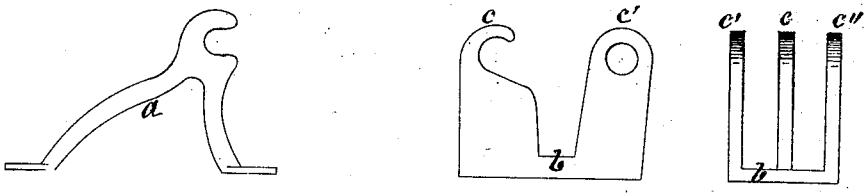


Fig. 2.





Witnesses.

Frank W. Jagma

Jeremy W. Bliss

Inventor.

Chas. M. Brown.

Cecil L. Gates.

United States Patent Office.

CHARLES M. BROWN AND CECIL L. GATES, OF HARTFORD, CONNECTICUT.

Letters Patent No. 111,723, dated February 14, 1871.

IMPROVEMENT IN CURTAIN-FIXTURES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, CHARLES M. BROWN and CECIL L. GATES, of the city and county of Hartford and State of Connecticut, have invented certain new and useful Improvement in Curtain-Fixtures; and, to enable others skilled in the art to make and use the same, we will proceed to describe, referring to the drawing, in which the same letters indicate like parts in each of the figures.

The nature of this invention will be clearly understood from the specification and drawing.

The object of this invention is to provide a fixture by the use of which the curtain will be held balanced in any desired position, and so that it shall easily and freely wind up or unwind upon the roller, and be freely operated by taking hold of the lower end of the curtain or the weighted cord.

In the accompanying drawing—

Figure 1 is a front elevation of this improvement.

Figure 2 shows the fixture in detached parts.

a is a bracket, such as is in common use.

b is a three-arm bracket.

The arm of the bracket *a* and the arm *c* of the bracket *b* hold and support the roller *e* and curtain *d* in their proper place and position in the common way.

f are axle-rim flanges, secured upon the ends of the roller *e*, and are much like those now in use.

Upon the axle of one of these rim-flanges, and between its bearing and flange, is secured a small gear, *g*.

h is a double axle-rim flange, upon which, and just inside of its bearing, is secured a gear, *g'*, of larger dimensions than the gear *g*, thus forming a groove or spool, *i*, for winding up the operating-cord *k*.

This axle-rim flange *h* takes its bearings in the outer ends of the arms *c' c''*, so that the gears *g g'* will work closely and freely, one into the other.

m is a weighted tassel, secured to the lower end of the cord *k*.

By this invention it will be seen that the curtain can be raised or lowered the whole or a part of its length, and held in a balanced or fixed position, without any extra fastening device, and that it may be operated, to wind up or unwind, upon its roller by taking hold of the lower end of the curtain or the operating-cord, thus producing a durable and efficient article of manufacture, use, and trade.

We believe we have thus shown the nature, construction, and advantage of our improvement so as to enable others skilled in the art to make and use the same therefrom.

We claim—

The combination of the roller *e*, brackets *a b*, constructed as described, rim-flanges *f h*, gears *g g'*, cord and tassel *k m*, substantially as and for the purpose set forth.

CHAS. M. BROWN. [L. S.]
CECIL L. GATES. [L. S.]

Witnesses:
FRANK W. JACQUES,
JEREMY W. BLISS.