J. Stephens,

Curtain Fixture,

N⁰ 15,258,

Patented July 1, 1856.

Fig.1

Fig.2

c
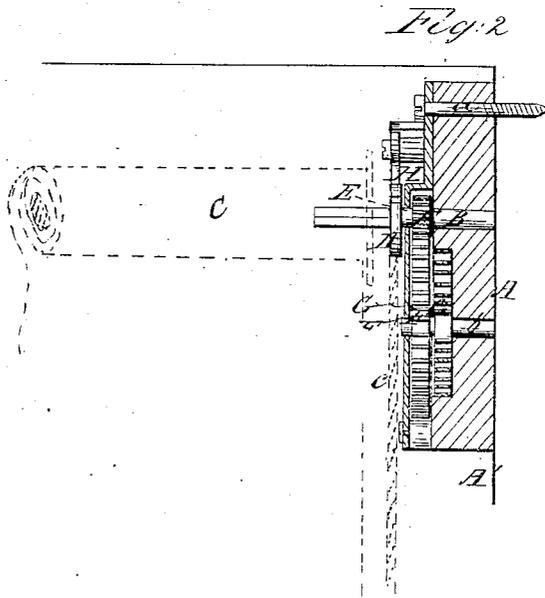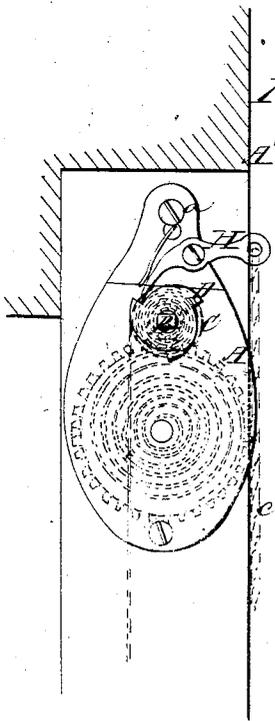
UNITED STATES PATENT OFFICE.

JAMES STEPHENS, OF NEW YORK, N. Y.

CURTAIN-FIXTURE.

Specification of Letters Patent No. 15,258, dated July 1, 1856.

To all whom it may concern:

Be it known that I, JAMES STEPHENS, of the city, county, and State of New York, have invented a new and Improved Fixture
5 for Window-Shades; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—
10 Figure 1, is a side view of my improvement. Fig. 2, is a vertical section of ditto, the plane of section being through the center.

Similar letters of reference indicate corre-
15 sponding parts in the two figures.

My invention consists in having an arbor to which one end of the shade roller is attached fitted in a swinging pendent which is attached to the window casing, said arbor
20 having a ratchet upon it and also a pinion which gears into a toothed wheel having a coil spring connected to its axis; the toothed wheel and spring being attached to the pendent, and the several parts being so ar-
25 ranged that as the shade is drawn down the spring will be wound up, and retained by a pawl which catches into the ratchet and by releasing the pawl from the ratchet, the coil spring will rotate the shade roller and wind
30 up the shade.

To enable those skilled in the art to fully understand and construct my invention I will proceed to describe it.

A, represents a pendent the upper part of
35 which is attached by a screw (*a*), to the side of the window casing A', and B, is an arbor which is fitted in said pendent, the outer end of the arbor projecting outward at right angles from the pendent and having a
40 square formed upon it to fit in one end of the shade roller C, so that the roller and arbor will turn together. The opposite end of the roller may be provided with a pivot to fit in a corresponding pendent on the oppo-
45 site side of the window casing. By having the roller C, fitted to these pendents, the roller is allowed a certain degree of play, so that it will not interfere with inside shutters, as the roller may be forced back
50 snugly against the sashes.

The arbor B, has a ratchet D, upon it and also a pinion E. The pinion E, gears into a toothed wheel F, the axis (*b*), of which is fitted in the pendent A, and G, is a coil spring also fitted within the pendent. The 55 inner end of this spring G, is attached to the axis (*b*), of the wheel F, and the outer end of the spring is attached to the pendent.

H, is a pawl attached to the upper part of the pendent. The inner end of this pawl 60 catches into the ratchet D, and the outer end has a cord (*c*), attached to it.

By the above arrangement of parts when the shade which is attached to the roller C is drawn down by hand, the spring G, will 65 be wound up and retained by the pawl H, which catches into the ratchet D, and when it is desired to raise the shade the inner end of the pawl H, by pulling the cord (*c*), is raised free from the ratchet and the spring 70 G, will then rotate the roller C, and wind up the shade the cord; if the shade is not to be wound fully up, being released when the curtain is raised the desired height so that the pawl may catch into the ratchet and re- 75 tain the spring.

The above invention is extremely simple and may be applied at a trifling cost to all windows.

I do not claim simply the application of 80 a coil spring to the shade roller for the purpose of winding up the shade, for they have been applied in various ways, but

What I do claim as new and desire to secure by Letters Patent is, 85

Attaching the coil spring to a swinging pendent A, and connecting the same to the arbor B, to which the shade roller C, is attached by the pinion E, and toothed wheel F, the arbor having a ratchet D, upon it in 90 which ratchet, a pawl H, attached to the pendent catches; the above parts being arranged substantially as shown for the purpose specified.

JAMES STEPHENS.

Witnesses:
Wm. Tusch,
J. W. Coombs.