

W. H. Woods,

Curtain Fixture.

N<sup>o</sup> 80,793.

Patented Aug. 4, 1868.

Fig: 1

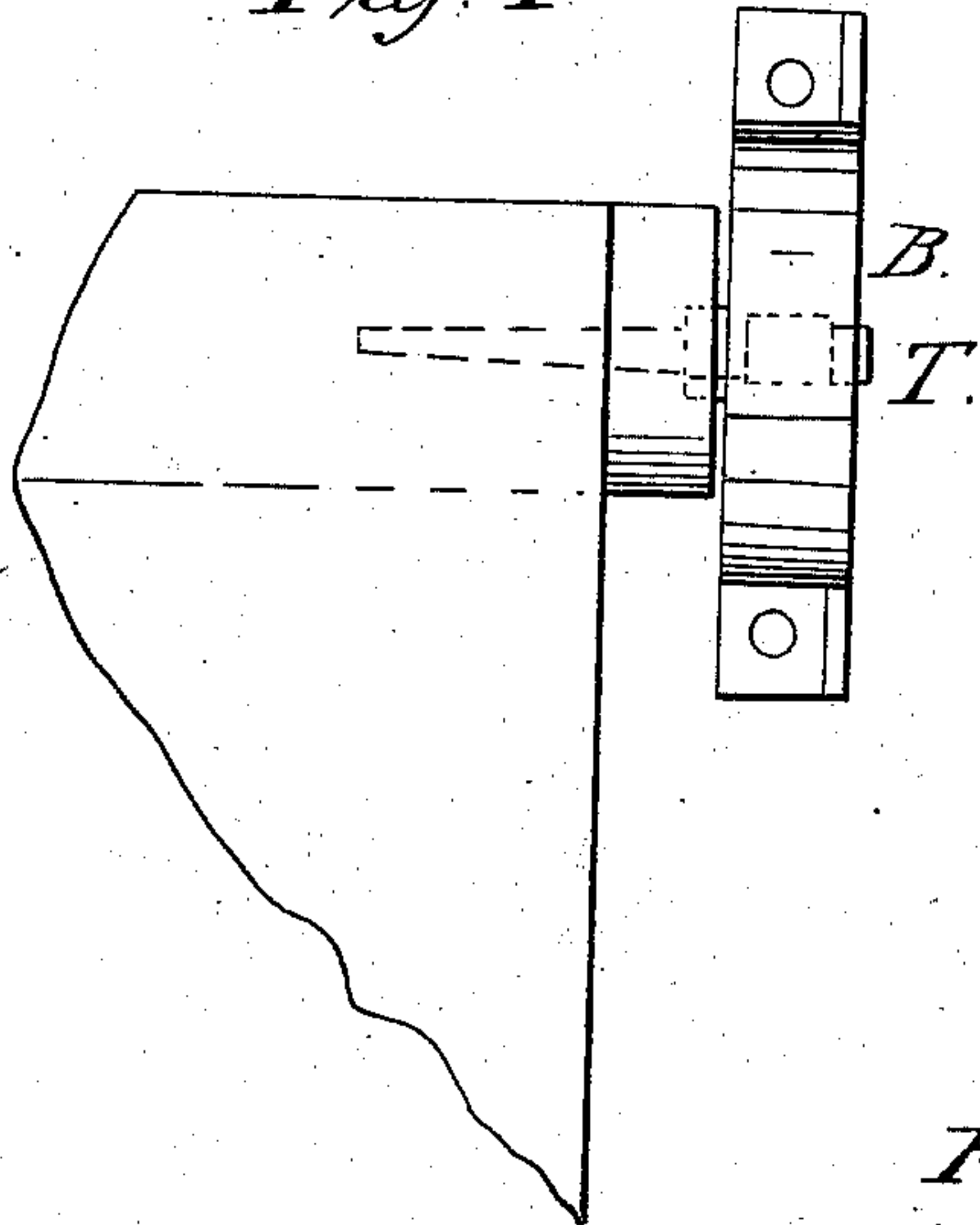


Fig: 3.

Fig: 2.

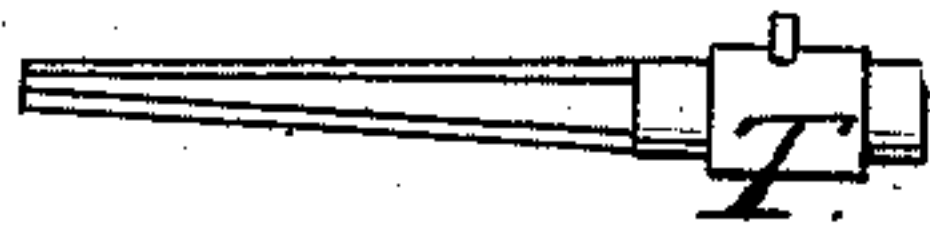


Fig: 4.

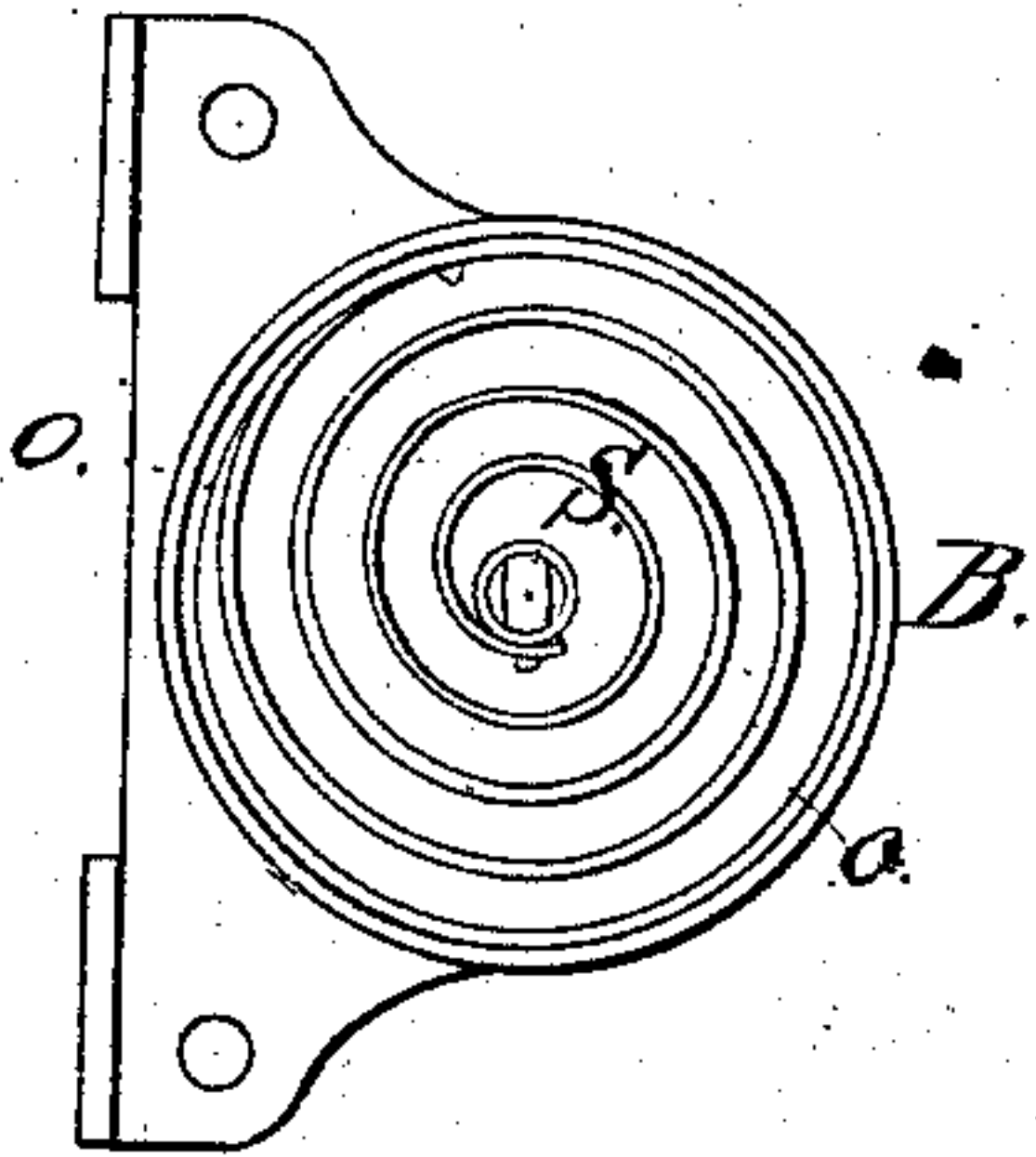


Fig: 5.

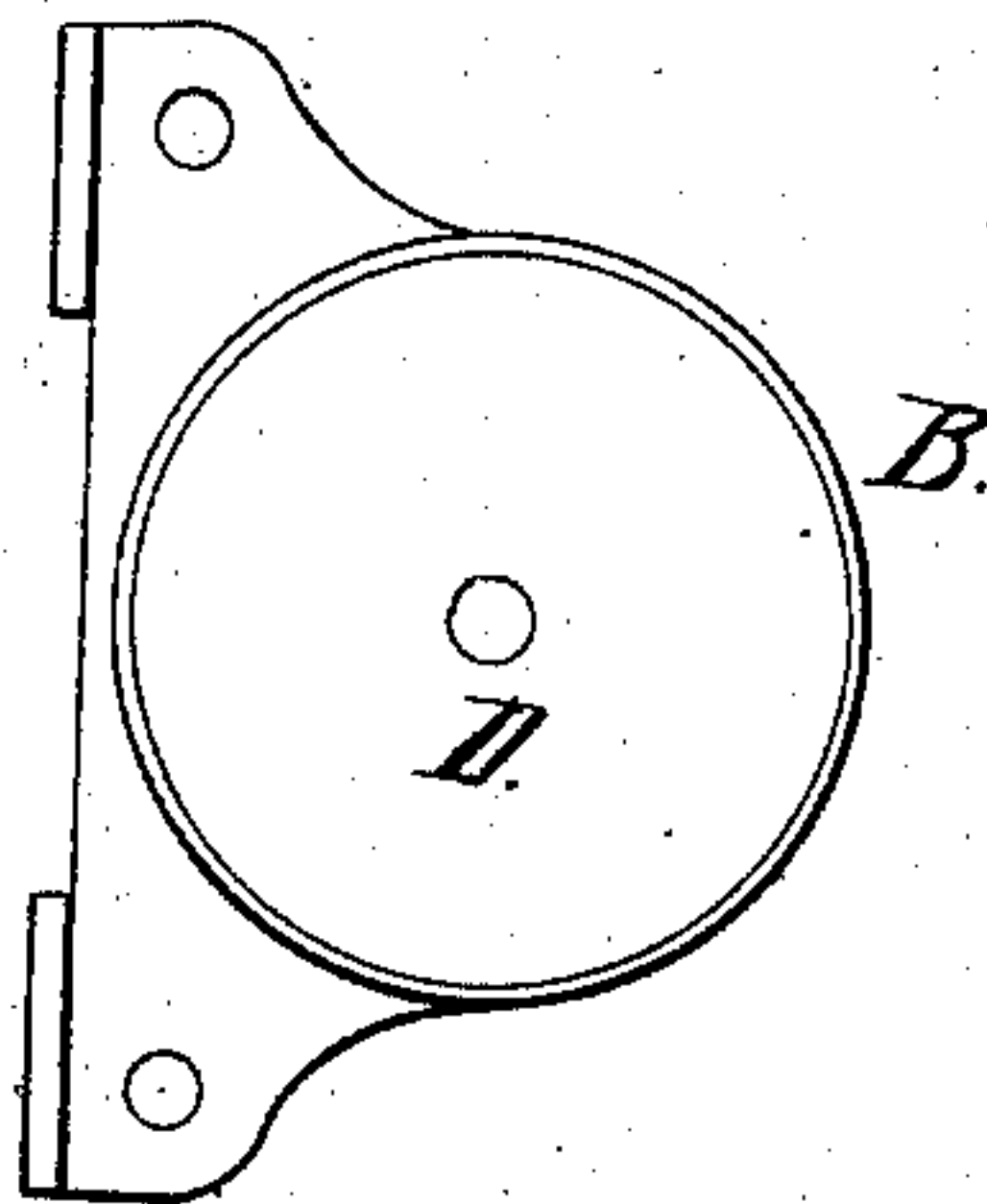


Fig: 6.



Witnesses:

Israel J. Taylor  
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# United States Patent Office.

WILLIAM H. WOODS, OF PHILADELPHIA, PENNSYLVANIA.

*Letters Patent No. 80,793, dated August 4, 1868.*

## IMPROVED CURTAIN-FIXTURE.

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

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLIAM H. WOODS, of the city of Philadelphia, county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in "Window-Shade Fixtures;" and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a front view of my improved window-shade fixture.

Figures 2, 3, 4, 5, and 6 are detached views of same.

My invention consists of a shade-bracket, provided with a barrel, in which are inserted a shaft and coiled spring, the whole being secured to the end of any ordinary shade-roller, to make it self-operating, for the purpose of raising and lowering the shade.

To enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation.

The barrel B, fig. 4, is made of iron, brass, or any suitable metal, and in one piece, and provided with feet, for securing it in proper position. On the upper edge of the barrel B is cast or formed a shoulder or ledge, C, on which rests and fits tightly a thin circular plate, D. In the centre of barrel B and circular plate D are formed circular openings, through which passes shaft T. The parts of shaft T working in the openings are turned down smaller, so as to form a shoulder for the purpose of holding it in proper position. The end of shaft T which protrudes through plate D is made tapering, so as to allow it to be driven into the roller. On the inside of the barrel B is affixed a coiled spring, S, of sufficient elasticity to operate any ordinary roller, and keep the shade at any desired point. One end of spring S is fastened to shaft T, and the other end to the side of rim of B. The roller to which the fixture is to be secured is provided with a collar, as shown in fig. 3, the same being centred in the roller, and through which is driven the tapering part of shaft T.

In the operation of the fixture, the spring S is coiled up tight on shaft S, by the lowering of the shade, which turns the roller. This tightening of the spring is not sufficient to again raise the shade, unless the curtain is eased up or slightly raised.

Having thus described my invention, its construction and operation, what I claim, and desire to secure by Letters Patent of the United States, is—

The combination and arrangement of barrel B with coiled spring S, plate D, and shaft T, for the purpose herein set forth.

In witness whereof, I have hereunto signed my name, in the presence of two subscribing witnesses.

Witnesses:

ISRAEL J. TAYLOR,

ISAAC R. OAKFORD.

WILLIAM H. WOODS.