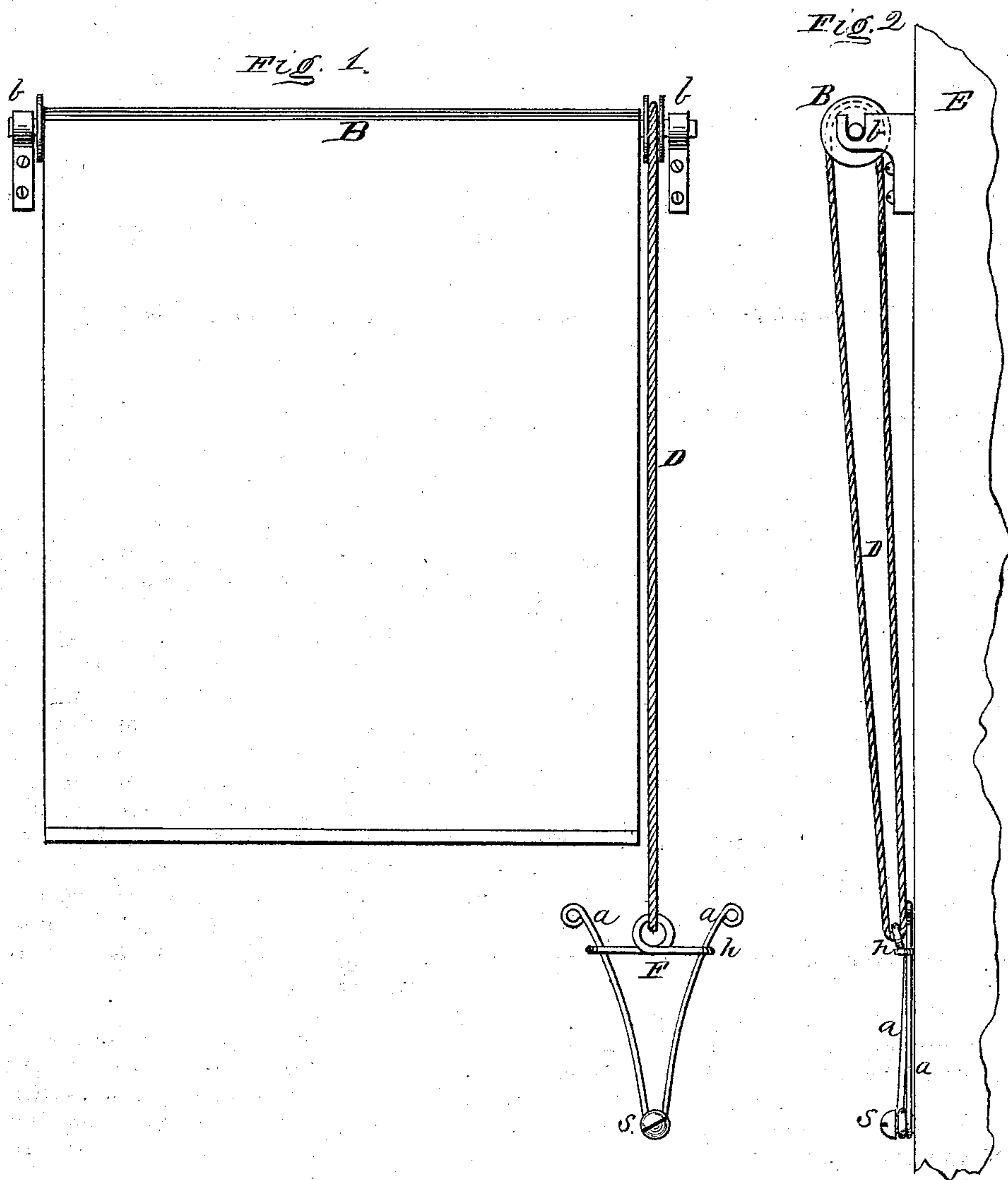


H. HOLCROFT.
Curtain-Cord Retainers.

No. 149,861.

Patented April 21, 1874.



Witnesses.
D. A. Carl.
John Smith.

Inventor.
H. Holcroft.

UNITED STATES PATENT OFFICE.

HENRY HOLCROFT, OF MEDIA, ASSIGNOR OF ONE-HALF HIS RIGHT TO
BENJAMIN A. EARL, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN CURTAIN-CORD RETAINERS.

Specification forming part of Letters Patent No. **149,861**, dated April 21, 1874; application filed
January 13, 1874.

To all whom it may concern:

Be it known that I, HENRY HOLCROFT, of Media, in the county of Delaware and State of Pennsylvania, have invented certain Improvements in Curtain-Cord Retainers, of which the following is a specification:

My invention consists of a coiled spring with two curved projecting arms, the coil being at the intersection of the arms. The arms are connected by a sliding cross-bar, in which is formed an eye for the cord.

Figure 1 is an elevation, showing the ordinary fixtures for a curtain, with my improved cord-retainer. Fig. 2 is an end view of the same.

Similar letters in the drawings refer to like parts.

B is the roller, on which the shade or curtain is wound. On the right is a grooved pulley. Each end of the roller is supported by brackets *b b*. D is the cord. F is the cord-retainer, and is constructed of spring-wire in the following manner: An eye is formed of two or more coils, and the ends *a a* are curved up in the form of the letter V with the tops turned over, as shown in the drawing. *h* is

the cross-piece, which is also made of wire, and is formed with an eye in the center, and a small one at each end, through which passes the ends *a a*.

My improvement is applied in the following manner: The cord D is passed over the pulley on the roller, and then through the eye in the cross-piece *h*. It is then drawn tight till the cross-piece *h* is about two-thirds up the arms *a a*, when an oval-head wood-screw is put through the eye formed by the coils and screwed into the window-casing E. The coiled spring and curves in the arms *a a* will draw down the cross-piece *h* and keep the cord tight through all changes of temperature and atmosphere, and will retain the curtain in any position it may be placed.

I claim—

In a curtain-cord retainer, as described, the combination, with a coiled spring provided with curved arms *a a*, of the sliding cross-piece *h*, as and for the purpose specified.

H. HOLCROFT.

Witnesses:

B. A. EARL,
JOHN SHINN.