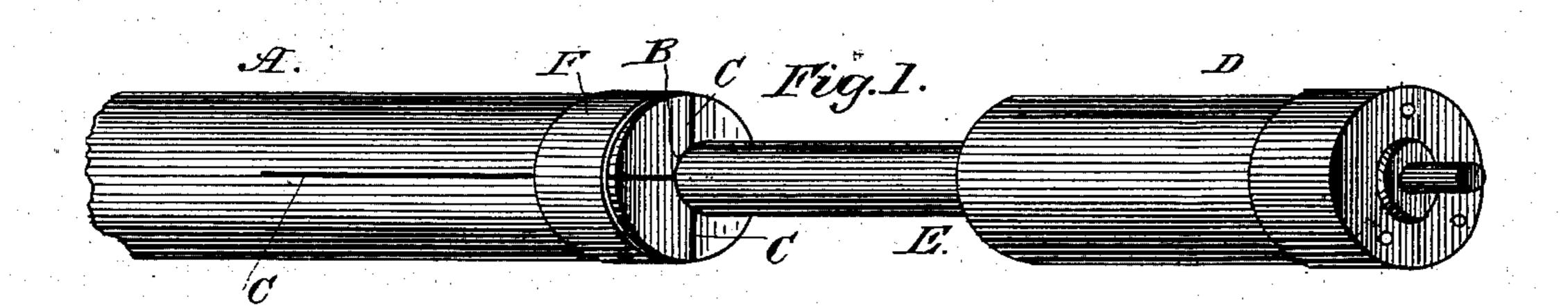
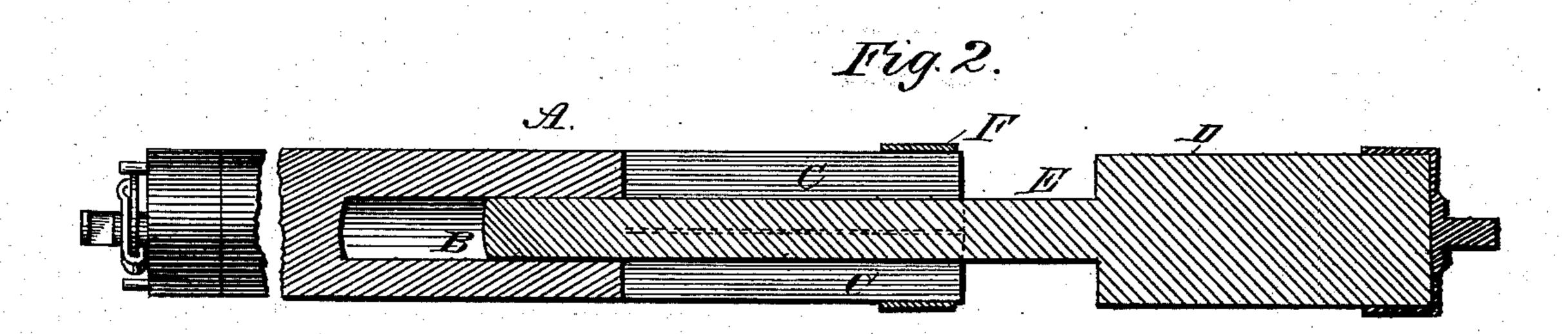
(No Model.)

D. H. ENGLE.
SHADE ROLLER.

No. 284,543.

Patented Sept. 4, 1883.





WITNESSES

hed Sittell.

INVENTOR.

Chow Ho

ATTORNEYS

## United States Patent Office.

DAVID H. ENGLE, OF MOUNT JOY, PENNSYLVANIA.

## SHADE-ROLLER.

SPECIFICATION forming part of Letters Patent No. 284,543, dated September 4, 1883.

Application filed July 6, 1883. (No model.)

To all whom it may concern:

Be it known that I, DAVID H. ENGLE, a citizen of the United States, residing at Mount Joy, in the county of Lancaster and State of Pennsylvania, have invented a new and useful Shade-Roller, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to rollers for window10 shades; and it has for its object to provide a
simple and efficient roller which may be readily
adjusted to windows of various widths, as will
be hereinafter fully described, and particularly
pointed out in the claim.

In the drawings hereto annexed, Figure 1 is a perspective view of my improved shade-roller, and Fig. 2 is a longitudinal sectional view of the same.

The same letters refer to the same parts in

20 both figures.

A in the drawings designates an ordinary shade-roller, the end of which is provided with a longitudinal recess, B, and with one or more slots or kerfs, C C, slitting the outer ends of the walls of the said recess longitudinally.

D is a cylindrical block forming an extension of the roller A, and having a pin or plug, E, adapted to enter and fit in the opening or recess B of the said roller. The said pin or plug should be of such length that the extension-piece D may be moved out any desired distance to fit the roller to windows of a greater width than the roller A might be otherwise adapted to. To retain the extension-piece D securely in position when adjusted, I provide a sleeve, F, adapted to fit upon the recessed and slotted end of the roller A, where it serves to clamp and hold the plug E of the extension-to-piece, which has been inserted into the recess B of the roller.

The slits or kerfs C should be only of sufficient length to enable the clamping-ring to operate successfully; but the recess B may extend nearly through the entire length of the 45 roller. By this construction the roller is not materially weakened, and is yet capable of being extended to nearly twice its length when folded.

The operation of my invention will be 50 readily understood from the foregoing description, taken in connection with the drawings hereto annexed. Much difficulty has heretofore been experienced in fitting shaderollers, especially of that kind which are 55 equipped with automatic winding-springs, to the windows for which they are intended. By my improvement, which is applicable to all kinds of rollers, all such difficulties are overcome, as the roller may, in a moment's time, 60 be fitted or adjusted to any window. The construction is simple, and my improved roller may be produced at a cost hardly exceeding that of ordinary curtain-rollers.

I claim and desire to secure by Letters Pat- 65 ent of the United States—

The roller A, having recess B, extending nearly through its entire length, and slots or kerfs C, slitting the walls at the outer end of said recess, in combination with the extension-70 piece D, having pin or plug E, and the sleeve or clamping-ring F, substantially as herein described, for the purpose shown and specified.

In testimony that I claim the foregoing as 75 my own I have hereto affixed my signature in presence of two witnesses.

DAVID H. ENGLE.

Witnesses:

F. A. RICKER, PETER BRUNNER.