

(No Model.)

W. B. NOYES.
SPRING CURTAIN ROLLER.

No. 299,256.

Patented May 27, 1884.

Fig. 1

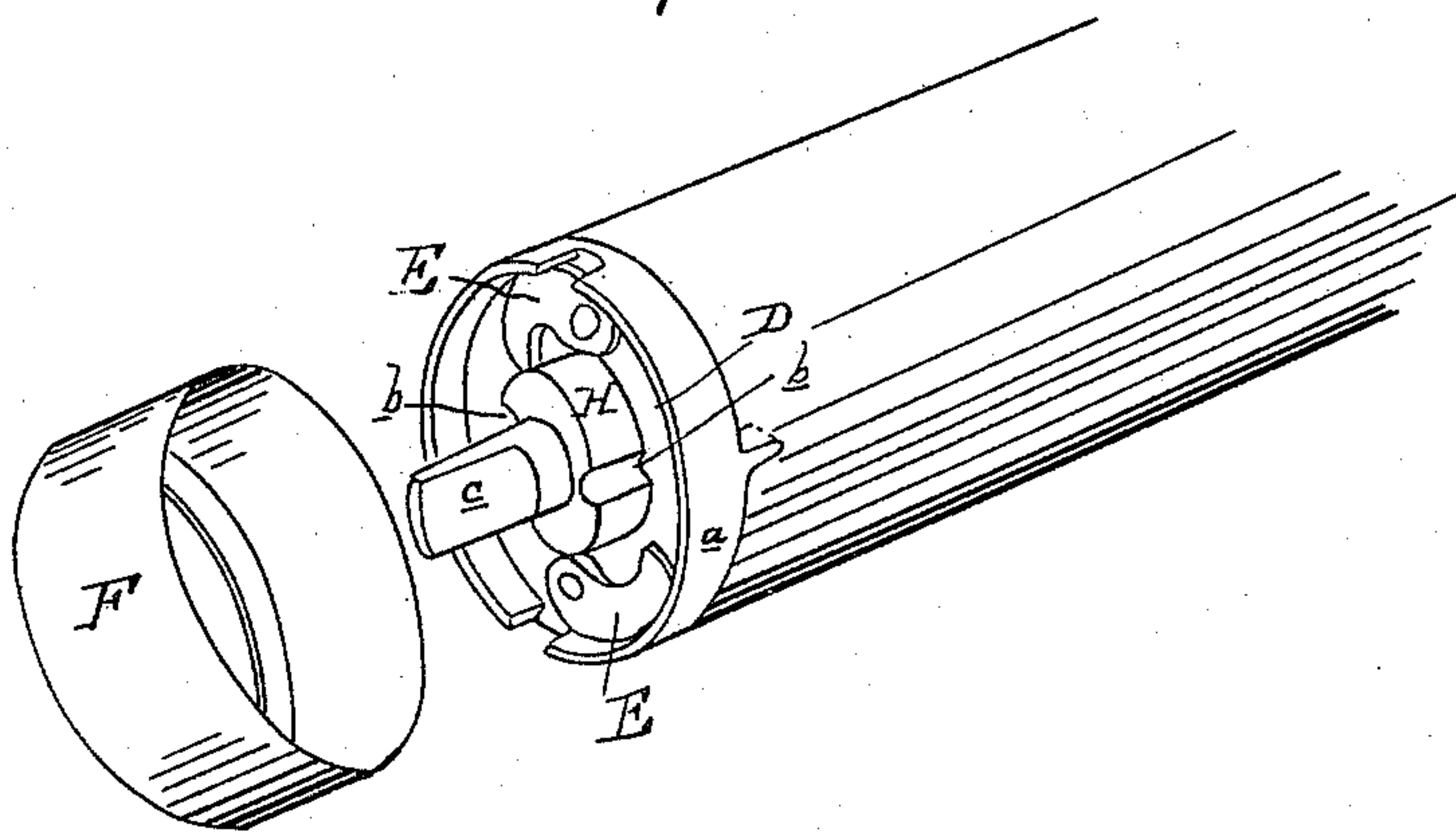
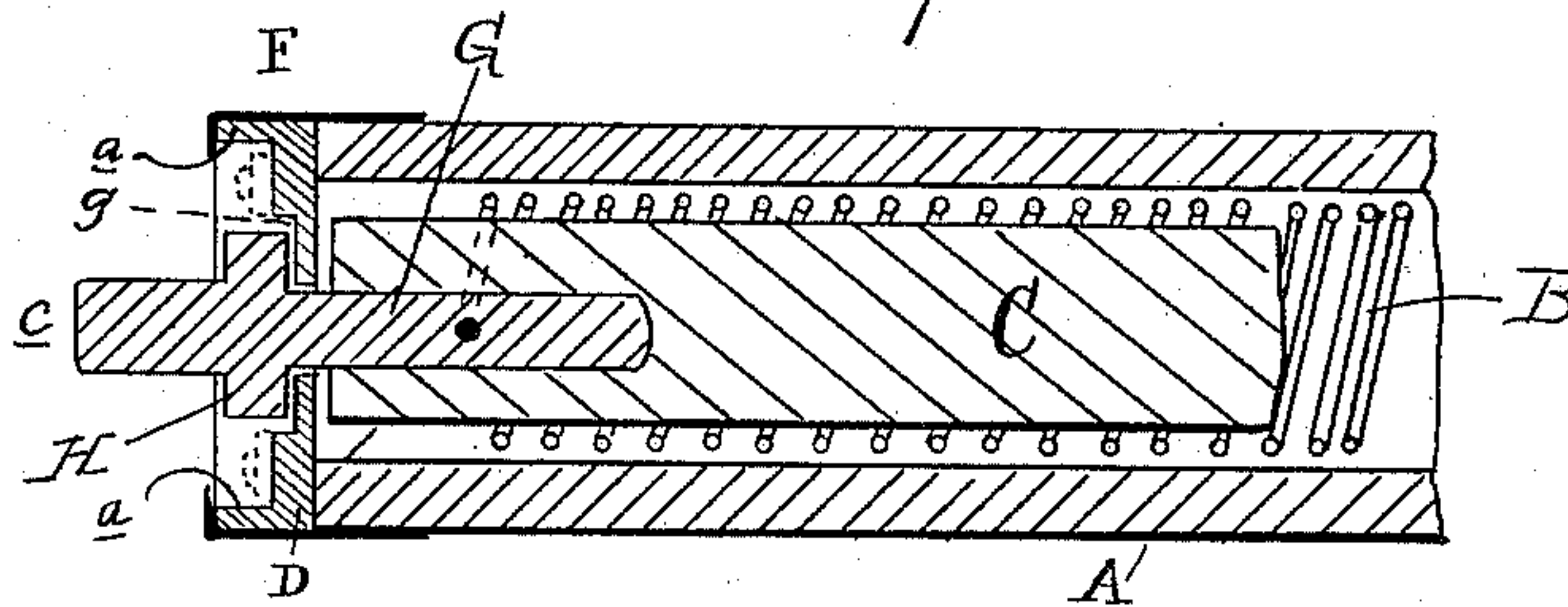


Fig. 2.



Attest:
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UNITED STATES PATENT OFFICE.

WALTER B. NOYES, OF DETROIT, ASSIGNOR TO THE SAGINAW MANUFACTURING COMPANY, OF SAGINAW, MICHIGAN.

SPRING CURTAIN-ROLLER.

SPECIFICATION forming part of Letters Patent No. 299,256, dated May 27, 1884.

Application filed December 19, 1883. (No model.)

To all whom it may concern:

Be it known that I, WALTER B. NOYES, of Detroit, in the county of Wayne and State of Michigan, have invented new and useful Improvements in Spring Curtain-Rollers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to certain new and useful improvements in the construction of spring curtain-rollers; and the invention consists in the peculiar construction, arrangement, and various combinations of the parts, all as more fully hereinafter set forth.

Figure 1 is a perspective view. Fig. 2 is a longitudinal section.

In the accompanying drawings, which form a part of this specification, A represents the hollow roller, within which is secured the spring B and its spindle C in the ordinary manner.

D represents a disk, which carries the dogs E upon its outer face, and is secured upon the end of the roller A by the retaining ferrule or cap F. This disk D is provided with an outwardly-projecting flange, *a*, forming a chamber between the disk and cap, within which the dogs are free to operate, and with a central depression, *g*, in which is partially seated the notched flange H of the pivot-spindle, in order that the pawls may have a central bearing on said flange H.

G is the pivot-spindle, cast in one piece preferably, the inner end of which passes through a central orifice in the disk, and is driven into the end of the spring-spindle C. This spindle G is provided with an annular flange, H, which will hold the disk D in place should the ferrule become loose, in which flange are formed the notches *b*, with which

the dogs E engage in the operation of the curtain, while the outer end of the spindle G is flattened, as at *c*, to engage with a suitable bracket in such manner as to prevent the rotation of the spindles G and C with the curtain-roller A. The opposite end of the roller A is provided with a suitable pivot, in the usual manner, to engage with a bracket upon the opposite end from that which supports the parts hereinbefore described. It can readily be seen that by this construction the roller can be removed at any time from its brackets without the necessity of locking the spring-spindle, as the dogs engage with the notched flange of the pivot-spindle, and the danger of the spring unwinding is avoided.

The advantage of the notched flange on the pivot-spindle is, that it helps retain the disk D in place and lessens the strain on the pivots of the pawls by increasing the leverage or carrying the retaining-points of said pivot-spindle at a greater distance from its axial line of rotation.

What I claim as my invention is—

1. In a spring-roller, the pivot-spindle G, cast in one piece, and provided with a notched annular flange, in combination with a disk, D, arranged between the flange and the roller, carrying pivoted dogs E, substantially as and for the purposes described.

2. In a spring-roller, the disk D, carrying dogs E, and provided with an outwardly-projecting flange, *a*, and a central depression, *g*, in combination with the ferrule F, roller A, and pivot-spindle G, provided with a notched annular flange, H, substantially as and for the purposes specified.

W. B. NOYES.

Witnesses:

H. S. SPRAGUE,
CHAS. J. HUNT.