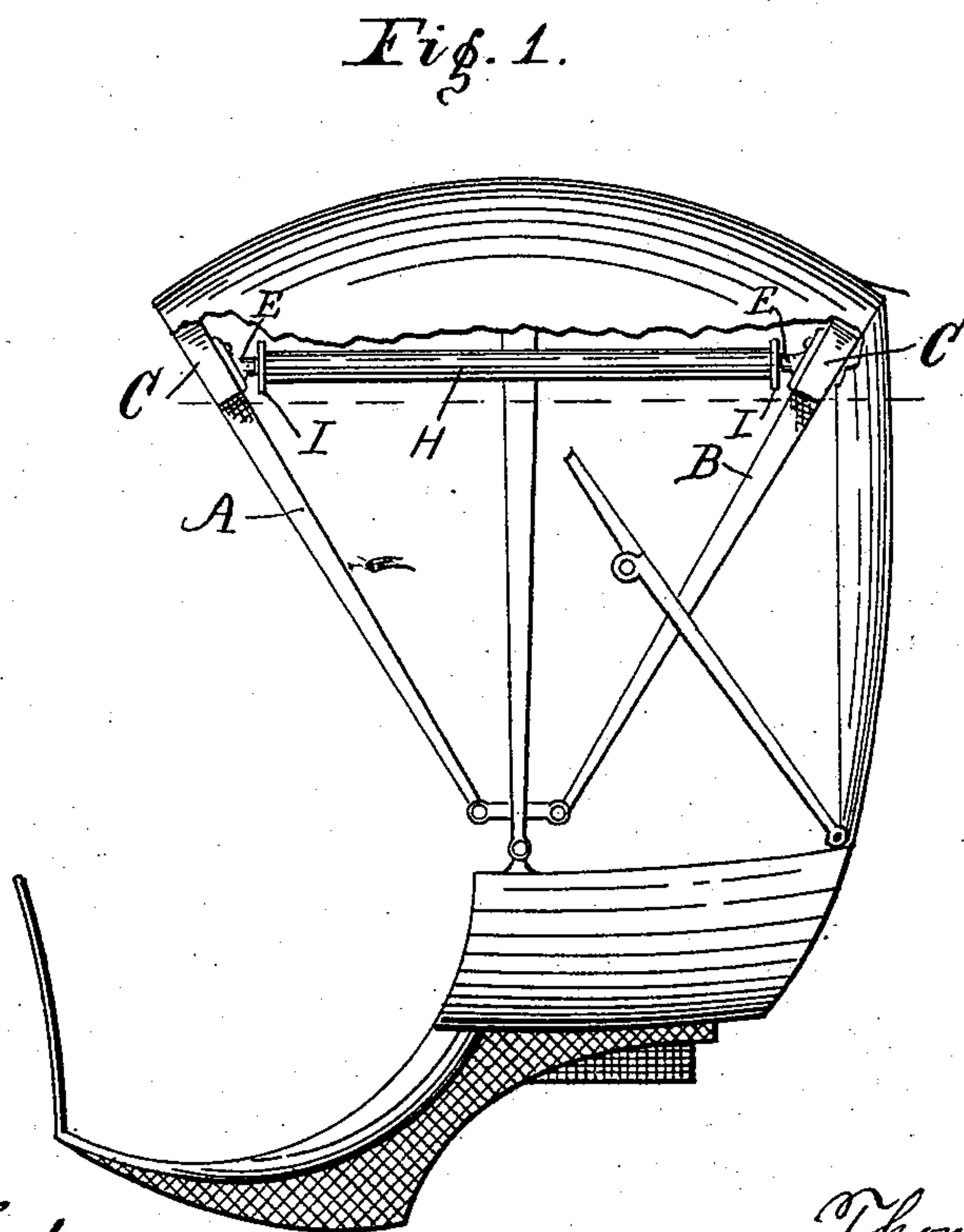
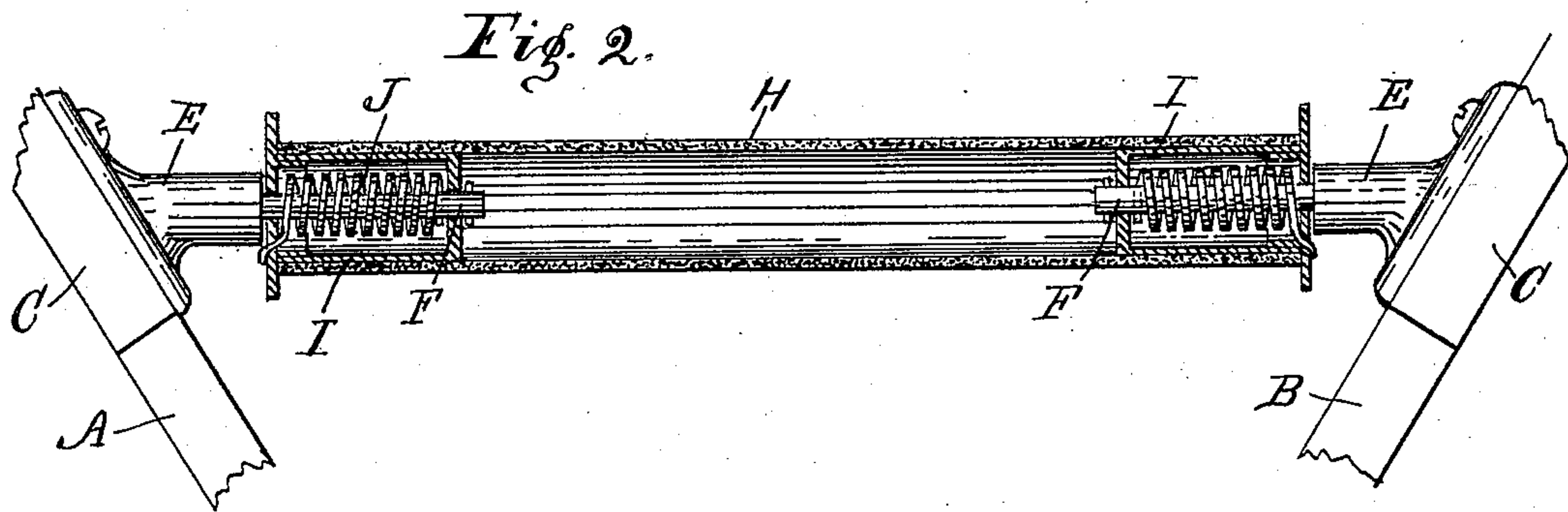


(No Model.)

T. V. MAXEDON.  
CURTAIN ROLLER.

No. 456,200.

Patented July 21, 1891.



Witnesses  
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# UNITED STATES PATENT OFFICE.

THOMAS V. MAXEDON, OF CRAWFORDSVILLE, INDIANA.

## CURTAIN-ROLLER.

SPECIFICATION forming part of Letters Patent No. 456,200, dated July 21, 1891.

Application filed December 1, 1890. Serial No. 373,136. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS V. MAXEDON, a citizen of the United States, residing at Crawfordsville, in the county of Montgomery and State of Indiana, have invented a new and useful Improvement in Curtain-Rollers, of which the following is a specification.

My invention relates to an improvement in curtain-rollers.

10 The object of my improvement is to provide a curtain-roller which may be mounted on a buggy-top frame, so as to support a side curtain therefor, and which shall be adapted to bend longitudinally, so as to fold upon itself  
15 when the buggy-top is turned back, all as hereinafter fully described.

The accompanying drawings illustrate my invention.

20 Figure 1 represents a side elevation showing the curtain-roller applied to a buggy-top. Fig. 2 represents, on a larger scale, a longitudinal section of the curtain-roll.

A and B represent the front and back bows of a buggy-top.

25 C C indicate narrow blocks secured to the outer sides of the bows A and B.

E E are a pair of brackets secured to the opposed faces of blocks C C between the bows. Each of the brackets E carries, rigidly secured  
30 thereto, a horizontally-projecting pin F.

The curtain-roller consists of a flexible cylinder H, having at each end rigid cylindrical sections I I, each having a central axial bearing adapted to receive and turn upon one of the pins F. The flexible cylinder H is formed,  
35 preferably, of rubber tubing; but any other material capable of being bent upon itself and retaining its cylindrical form when again extended may be used.

40 For the purpose of making the roller self-acting in rolling up the curtain one or both of the rigid sections I I are formed hollow,

and a coiled spring J is mounted therein, having one end secured to the cylinder and the other end secured to the pin or journal F, and  
45 arranged so that the spring is put in tension by the unrolling of the curtain and the curtain is raised by the recoil of the spring.

When the roller is mounted upon the bows of the buggy-top frame and the top is extended, the roller operates like an ordinary  
50 curtain-roller. When the top-frame is folded back, the flexible roller, with the curtain rolled upon it, yields and bends sufficiently to allow the bows A and B to approach each other. 55

In trimming the top the top covering is drawn over the outer edges of the blocks C and projects below the curtain-roller, so as to conceal it, as indicated by the dotted lines  
60 in Fig. 1.

I claim as my invention—

1. A curtain-roller consisting of a flexible cylinder having at each end a short rigid cylindrical portion provided with an axial bearing, substantially as set forth. 65

2. In a curtain-roller, the combination of the flexible cylinder, the short rigid end sections secured thereto and having axial bearings formed therein, the pair of brackets forming supporting-journals which fit in said bearings, and the coiled spring mounted within  
70 the roller and having its ends secured, respectively, to the roller and one of the journals, all substantially as set forth.

3. The combination of the bows A and B, blocks C C, brackets E E, and the curtain-roller consisting of the flexible cylinder H, having rigid end sections I I, provided with axial bearings, all arranged to co-operate substantially as and for the purpose set forth. 75

THOMAS V. MAXEDON.

Witnesses:

T. L. STILWELL,  
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