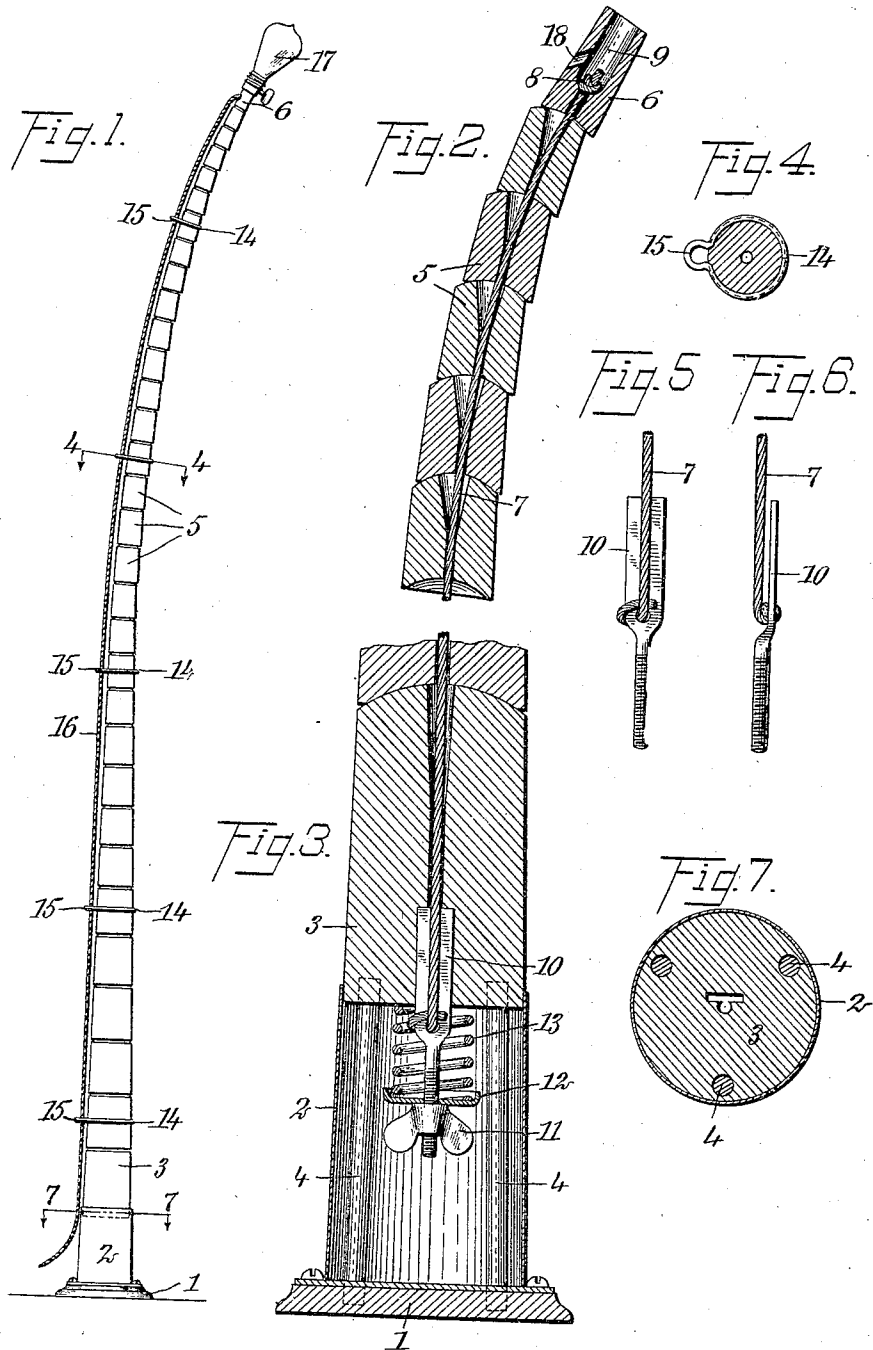


No. 870,429.

PATENTED NOV. 5, 1907.

F. G. GRIMLER.  
SECTIONAL STAND.  
APPLICATION FILED APR. 27, 1907.



WITNESSES

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# UNITED STATES PATENT OFFICE.

FRANK G. GRIMLER, OF BUFFALO, NEW YORK.

## SECTIONAL STAND.

No. 870,429.

Specification of Letters Patent.

Patented Nov. 5, 1907.

Application filed April 27, 1907. Serial No. 370,657.

*To all whom it may concern:*

Be it known that I, FRANK G. GRIMLER, a citizen of the United States, and a resident of Buffalo, in the county of Erie and State of New York, have invented  
5 a new and Improved Sectional Stand, of which the following is a full, clear, and exact description.

This invention is an improvement in stands of a flexible nature, more especially designed as a support for an incandescent lamp.

10 An object of the invention is to provide a construction of this character composed of a series of units movable one upon the other and forced together by resilient means which is adjustable, whereby the frictional engagement of the several units may be varied.

15 The invention further resides in certain special features of construction and arrangement of parts, which will be more fully set forth hereinafter and particularly pointed out in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is an elevational view of the preferred form of my improved stand; Fig. 2 is a central, vertical section through the upper portion of the stand; Fig. 3 is a like section through the face of the stand illustrating the construction for adjusting the tension between the several units; Fig. 4 is a cross section on the line 4—4 of Fig. 1; Fig. 5 is a face view of an eye-bolt and its flexible connection forming a detail of construction; Fig. 6 is an edge view of the same, and Fig. 7 is a section on the line 7—7 of Fig. 1.

The sectional stand or support as preferably constructed, comprises a base 1, to which is rigidly secured  
35 on its top face a cylindrical body 2, the latter receiving the bottom unit or joint 3 of the flexible portion of the stand, said unit being connected with the base 1 through the intermediary of supporting rods 4 contained within the cylinder 2 and located near the inner wall thereof. The flexible portion of the stand is preferably uniformly tapered with the small end located at the top and composed, in addition to the bottom or base joint 3, of a series of intermediate joints 5 and a top joint 6, each joint being formed with  
45 convex and concave opposite ends which fit the counterpart ends of the next adjacent joints.

Each joint of the flexible portion of the stand is provided with a central aperture through which passes a cord or other flexible line 7, a knot or other equivalent enlargement 8 being formed at the top of the cord, which is received within the counterbored upper end 9 of the top joint 6. The bottom end of the cord 7 is secured to an eye-bolt 10, which is constructed with

an elongated flat head slidable within a slot formed in the lower end of the base-joint 3. A thumb-nut 11 is  
55 threaded on the eye-bolt 10, and adjustably supports a dished washer 12, between which and the bottom face of the joint 3, a coiled spring 13 is interposed.

The central apertures in the several joints are made flaring at one end, preferably at the top, the flared portion of the aperture in each joint starting from a point which is substantially the center of curvature of its convex upper end and the concave lower end of the contiguous joint superposed thereon. This construction affords clearance for the cord 7 when the joints  
65 are moved upon each other to carry the top of the stand to an angular position, and by reason of the yielding, adjustable connection afforded at the lower end of the cord, any desired frictional contact between the opposed ends of the several joints may be obtained, thus making the flexing of the stand of any desired stiffness.

At suitable intervals of the stand's length, certain of the flexible joints are provided with encircling bands 14 each having an eye 15 adapted to receive and retain a conductor 16 leading to a lamp 17 carried by  
75 the top joint 6. This top joint is also provided with an aperture 18 for admitting the conductor within the counterbore 9.

While I have illustrated my improved sectional stand as a support for an incandescent electric light, 80 it is obvious that the same may be used for carrying various other forms of lamps as well as other devices, also numerous other changes may be made in the construction from that shown and described, without departing from the nature of my invention as defined in 85 the claims annexed.

Having thus described my invention I claim as new and desire to secure by Letters Patent:

1. A sectional stand composed of a series of units each having a central aperture, a cord affixed to a unit at one end of the stand and passing through the apertures of the intermediate units, the aperture of each unit closely fitting the cord at one end, and formed with an enlarged portion at its opposite end, and means arranged at the opposite end of the stand including a resilient member for adjusting the tension on said cord.

2. A sectional stand, comprising a base having a cylinder mounted thereon, a series of joints movably mounted one upon the other with the lower joint passing into said cylinder, means connecting the joint within the cylinder to said base, a cord attached to the top joint and passing through central apertures formed in the intermediate joints, an eye-bolt slidably mounted within the bottom joint to which said cord is attached, a thumb-nut threaded on said eye-bolt, a washer supported on said eye-bolt by said thumb-nut, and a spring interposed between the washer and the bottom joint.

3. A sectional stand composed of a series of joints, an electric lamp carried by the top joint, means connected to

the top joint and passing through the intermediate joints  
bindingly connecting all of said joints together, bands hav-  
ing eyes integral therewith fixed to certain of said joints,  
and a conductor passing through said eyes and through  
5 said top joint to the lamp.

4. A sectional stand composed of a series of units slid-  
able one upon the other, a cord attached to one of said  
units and passing through the intermediate units, a device  
slidably mounted within one of said units to which said

cord is attached, a spring, and adjustable means carried by 10  
said device bearing on said spring.

In testimony whereof I have signed my name to this  
specification in the presence of two subscribing witnesses.

FRANK G. GRIMLER.

Witnesses:

M. E. PERGANDE,

CHARLES F. HOUCK.