April 4, 1967 W. ZELONY 3,312,440

ADJUSTABLE LEG

Filed June 7, 1965

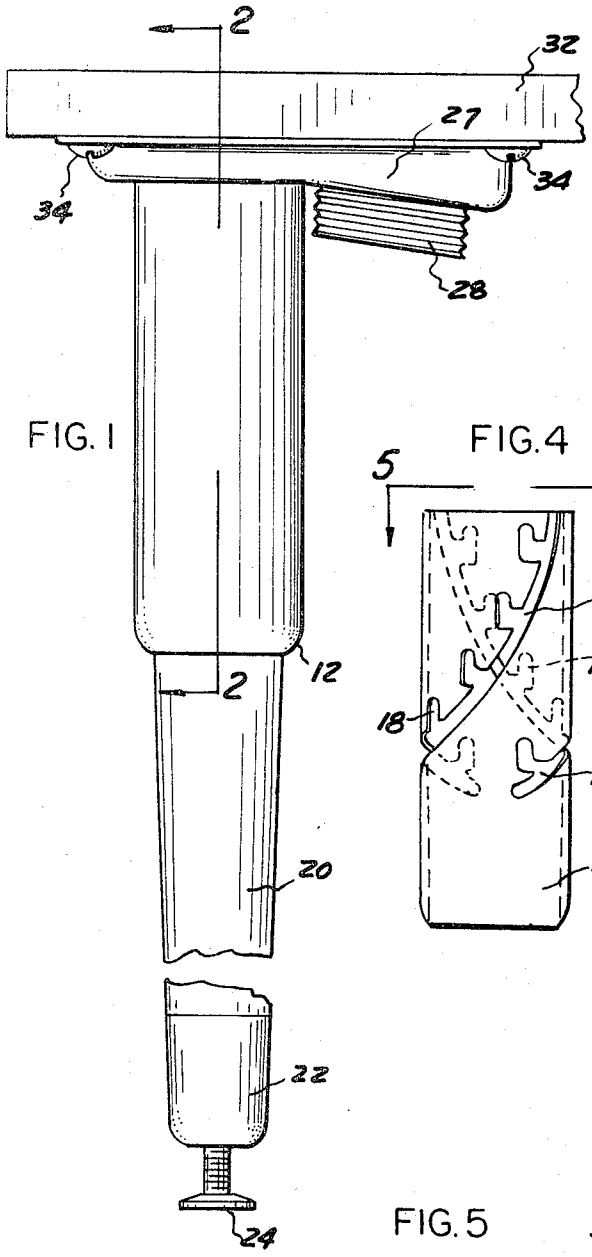


FIG. 1

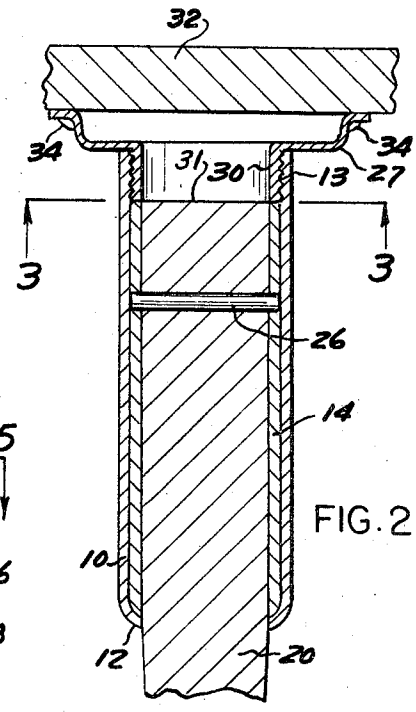


FIG. 2

FIG. 4

FIG. 3

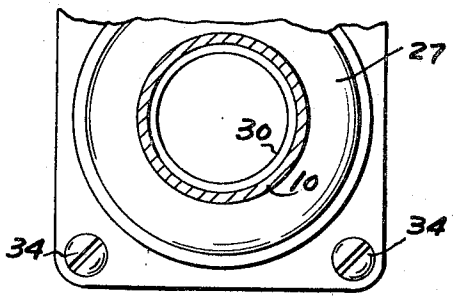
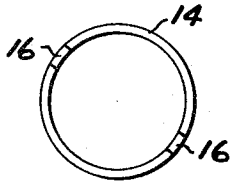


FIG. 5



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3,312,440
Patented Apr. 4, 1967

3,312,440

ADJUSTABLE LEG

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Filed June 7, 1965, Ser. No. 461,798
2 Claims. (Cl. 248—188.8)

This invention relates to adjustable legs generally, and more particularly to a type of such leg adapted for use on snacks bars, vanity tables and other service and utility counters.

Custom builders and home improvement firms are regularly installing, in kitchens and bath rooms, counters of non-uniform height to meet individual requirements and specifications. The cost of these installations is appreciably increased because the building trades have no available source of legs which can be readily adjusted to provide the exact height required.

Suppliers presently manufacture and stock only the most popular size legs of the height used for standard kitchen or cocktail tables. Since these legs have only a small leveling adjustment in the toe cap, they cannot be conveniently adapted for use on custom built vanities, bars, and other similar structures. Consequently, legs of the exact length required must be specially constructed for all installations which deviate from the presently recognized standard heights.

Cognizant of this fact, the applicant has, as the primary object of his invention, the provision of an adjustable leg which can be readily adapted for uses ranging from substandard tables 20 inches in height, to snack bars and counters 40 inches in height.

Another object of the invention is to provide an adjustable leg of the type previously described, which is extremely strong, and very easy to adjust and install.

A further object of the invention is the provision of a leg of the type previously described which is simple in construction, and relatively inexpensive to produce.

Other features and advantages of the invention will become apparent after thorough consideration of a detailed description of the same composed with reference to the drawings constituting a part of this application, and in which:

FIGURE 1 is an elevation view showing the applicant's adjustable leg and mounting flange attached to a flat surface.

FIGURE 2 is a section view taken substantially on plane 2—2 in FIGURE 1 showing the transverse pin in the leg.

FIGURE 3 is a section view taken substantially on plane 3—3 in FIGURE 2 showing the characteristic shape of the mounting flange.

FIGURE 4 is an elevation view of the sleeve insert removed from the tubular casing showing the spiral slots therein.

FIGURE 5 is a plan view taken substantially on plane 5—5 in FIGURE 4 showing the diametrally disposed transverse slots in the sleeve insert.

For a more detailed description of the invention herein disclosed, reference is made to the drawings in which numeral **10** designates a tubular casing inwardly turned on the lower end to form a retainer rim **12**. An internally threaded section **13** is provided on the upper end of the tubular casing **10**. A sleeve insert **14**, seated on

the inwardly turned retainer rim **12** of the tubular casing **10**, has therein two diametrally disposed spiral slots **16**.

A series of transversely aligned longitudinally spaced bayonet slots **18** in the sleeve insert **14**, are placed in communication with the spiral slots **16**. A tapered leg **20** is slidably fitted into the sleeve insert **14** and extends from the lower end of the tubular casing **10**. A toe cap **22**, applied to the end of the tapered leg **20** is provided with a threadably adjustable leveling tip **24**.

A diametral pin **26** in the tapered leg **20**, adjacent the upper end thereof, is seated in a pair of the transversely aligned openings **18** in the sleeve insert **14**. A mounting flange **27**, has thereon a pair of externally threaded dependent plugs **28** and **30** for selectively engaging the upper end **31** of sleeve insert **14** and the internally threaded section **13** on the tubular casing **10**. The mounting flange **26** is attached to the lower side of a flat surface **32** by screws **34**.

This completes a description of the structural details of the invention herein disclosed; however, to more fully comprehend and appreciate the subject matter presented, a discussion is hereinafter directed to the manner in which the adjustable leg is used to accomplish its intended function, and achieve the objectives previously herein set forth.

In use, the required number of mounting flanges **27** are first attached to a table or counter top **32**, as shown in FIGURES 1 and 2. The legs are next adjusted to the desired length by grasping the tubular casing **10** in one hand and the tapered leg **20** in the other hand, and exerting a slight pulling force on each of the components. The diametral pin **26** is thereby moved from the top of the transversely aligned bayonet slots **18** in the sleeve insert **14**.

The application of a slight twist on the tapered leg **20**, will then move the diametral pin **26** into the spiral slots **16** of the sleeve **14**. The diametral pin **26** can then be moved freely up and down the spiral slots **16** to provide the desired over-all length. A slight counter twist, coupled with a pushing force applied to the tapered leg **20**, will then move the diametral pin **26** into the tops of the transversely aligned bayonet slots **18** in the sleeve insert **14**.

The individual adjustable legs may then be attached to the flanged supports by turning the tubular casing **10** so as to engage the internal threaded section **13** on either of the threaded plugs **28** and **30**. If the legs are to be disposed at right angles to the flat surface **32**, the threaded plug **30** on the mounting flange **27** is employed. When it is desired to have the legs flare outwardly from the flat surface **32**, the angularly disposed threaded plug **28** on the mounting flange **27** is used.

Based upon the foregoing discussion, the applicant is of the opinion that his invention has fulfilled a long-felt need in the field of adjustable legs, and that he has accordingly made a valuable contribution to the related art. However, while the invention was described with reference to the structural details of a single embodiment, it will be appreciated by those familiar with the art, that the principles involved are susceptible of numerous other practical adaptations.

I claim:

1. An adjustable leg comprising a tubular casing, a sleeve insert in the tubular casing having therein two

longitudinal spiral slots and pairs of diametrally opposed longitudinally spaced bayonet slots communicating with the longitudinal slots, an elongated leg having one end thereof slidably located in the sleeve, a pin on the elongated leg slidably located in the longitudinal spiral slots, selectively engageable in a pair of the opposed bayonet slots and means for attaching the casing to a fixed support.

2. The adjustable leg of claim 1 in which the means for attaching the casing to a fixed support includes a threaded section in the tubular casing adapted to receive and threadably engage the attaching element on the fixed support so that the upper end of the sleeve insert seats on such attaching element.

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