May 28, 1957 D. C. D. COLICCI 2,793,435

SLICING KNIFE GAUGE

Filed July 3, 1956

Fig. 1

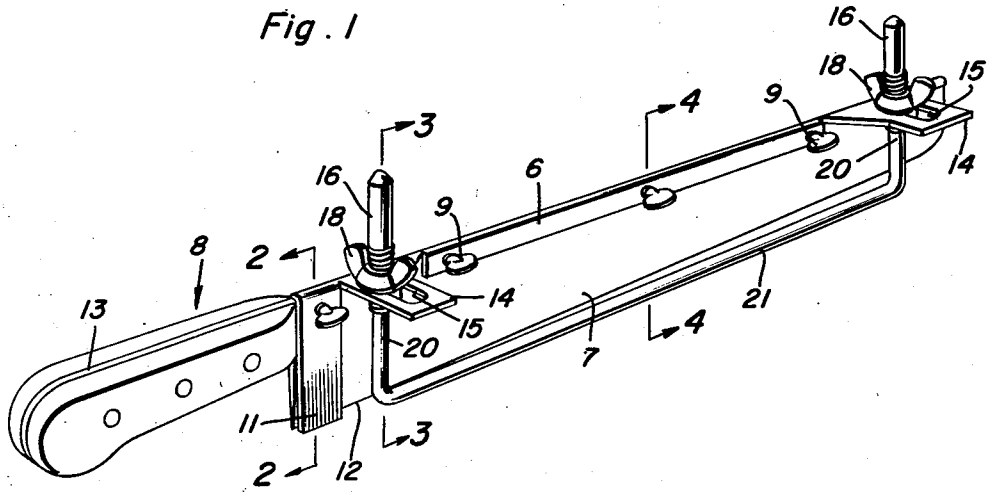


Fig. 3

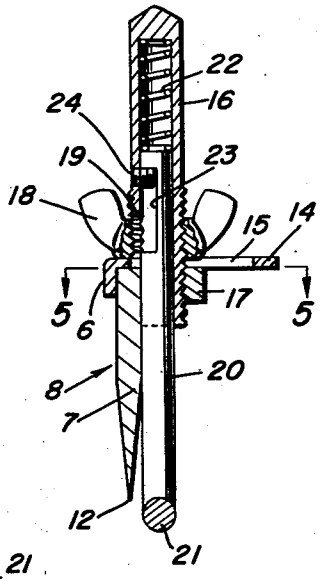


Fig. 4

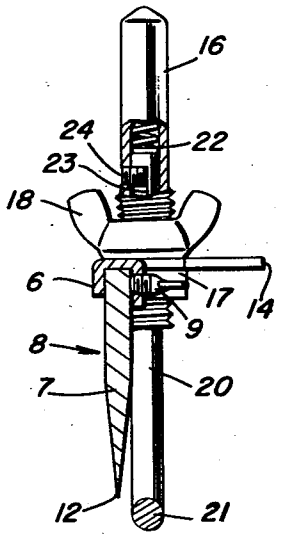
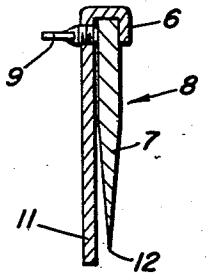


Fig. 2



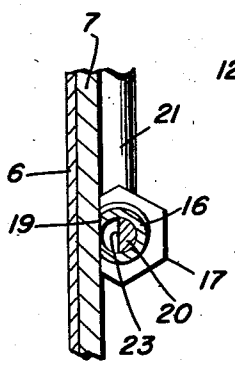


Fig. 5

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SLICING KNIFE GAUGE

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Application July 3, 1956, Serial No. 595,729

3 Claims. (Cl. 30—284)

This invention pertains to slicing knife gauges of the type constituting the subject matter of my U. S. Patent No. 2,722,743, issued November 8, 1955 on which the present device constitutes an improvement.

The primary object of the present invention is to provide an improved slicing knife gauge of the aforementioned character comprising a slidably mounted, spring pressed, yieldable guide rod which, upon contact with a bone, cutting board, etc., will retract and permit the blade to cut through the meat, bread or other product being sliced.

Another important object of the invention is to provide an improved gauge of the character described comprising a shield or guard for protecting the hand of the user from the cutting edge of the knife.

Other objects of the invention are to provide an improved gauge of the character set forth which will be relatively simple in construction, of light weight, compact, reliable in use and which may be produced at reasonable cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawing wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a perspective view, showing an improved slicing gauge embolying the present invention mounted on a knife;

Figures 2, 3 and 4 are views in transverse section taken, respectively, on the lines 2—2, 3—3 and 4—4 of Figure 1; and

Figure 5 is a view in horizontal section, taken substanitially on the line 5—5 of Figure 3.

Referring now to the drawing in detail, it will be seen that the embodiment of the present invention which has been illustrated comprises a metallic channel bar **6**. The channel bar **6** is adapted to be mounted longitudinally on the back of the usual blade **7** of a conventional slicing knife which is designated generally by reference character **8**. Toward this end, the channel bar **6** has threadedly mounted therein at longitudinally spaced points a plurality of setscrews **9** which are engageable with the knife blade **7** in the manner shown to advantage in Figure 2 of the drawing. Depending from the inner end portion of the channel bar **6** is an integral shield **11** which terminates at a point closely adjacent the cutting edge **12** of the blade **7**. The shield **11** protects the fingers of the hand of the operator which grips the handle **13** of the knife **8** from the cutting edge **12** of the blade **7**.

Projecting laterally from the end portions of the channel bar **6** is a pair of brackets **14** having elongated openings or slots **15** therein. Tubular guides **16** in the form of elongated, externally threaded metallic sockets are mounted for vertical and horizontal adjustment in the slots **15**. Segmental nuts **17** are threaded for adjustment on the guides **16** below the brackets **14**. Wing nuts **18** are threaded on the guides **16** above the brackets **14** and

coact with the nuts **17** for securing said guides in adjusted position. On the sides thereof which are adjacent the knife blade **7**, the lower end portions of the guides **16** are recessed or cut-away, as indicated at **19**.

The guides **16** slidably receive the cylindrical upturned end portions **20** of a guide rod **21**. The guide rod **21** is normally adjacent to and substantially parallel with the cutting edge **12** of the blade **7**. Coil springs **22** in the guides **16** yieldingly resist upward movement of the guide rod **21**. The end portions **20** of the rod **21** are longitudinally recessed or notched, as at **23**, to accommodate stop pins **24** in the guides **16**.

It is believed that the use of the improved device will be readily apparent from a consideration of the foregoing. The channel bar **6** is secured on the back of the knife blade **7** through the medium of the setscrews **9**. The coil springs **22** normally maintain the guide rod **21** in the position of Figure 3 of the drawing. It will be noted that in this position the rod **21** is located slightly below the horizontal plane of the knife edge **12**. Horizontal and vertical adjustment of the rod **21** may be readily had through the medium of the nuts **17** and **18** on the guides **16**. Should a bone, for example, be encountered while slicing meat, the guide rod **21** contacts said bone and is caused to move upwardly thereby against the tension of the coil springs **22**, permitting the knife to continue until it engages said bone. The retractibility of the guide rod **21** also permits the present device to be used satisfactorily at any suitable point on a cutting board rather than at an edge only thereof. As hereinbefore stated, the shield **11** protects the fingers of the hand which grips the handle **13** from the cutting edge of the blade **7**.

The tubular guides **16**, which may be of aluminum, stainless steel, Lucite or other suitable plastic, are from two to six inches in length and one-sixteenth of an inch thick with light threads one-eighth of a ninch deep which, if desired, may extend the length of said guides. The guide rod **21** and its end portions **20** may be square and of aluminum or stainless steel, chrome plated, and the guides **16** correspondingly shaped and oversize to accommodate same. Then, the brackets **14** may be of aluminum or malleable or stainless steel.

It is believed that the many advantages of an improved slicing knife gauge constructed in accordance with the present invention will be readily understood and although a preferred embodiment of the device is as illustrated and described, it is to be understood that changes in the details of construction and in the combination and arrangement of parts may be resorted to which will fall within the scope of the invention as claimed.

What is claimed as new is as follows:

1. A slicing knife gauge including, a channel bar to be mounted longitudinally on the back portion of a knife blade, a pair of brackets projecting laterally from said bar, said brackets having slots therein, vertical guides mounted for horizontal and vertical adjustment in the slots, a substantially horizontal guide rod including upturned end portions slidably engaged in said guides, and coil springs mounted in the guides for yieldingly resisting upward movement of the guide rod.

2. A slicing knife gauge including, a channel bar to be mounted longitudinally on the back portion of a knife blade, a finger shield on said channel bar extending adjacent the cutting edge of the blade, lateral brackets projecting from the channel bar at spaced points, vertical guides mounted for vertical and horizontal adjustment on said brackets, threaded means for adjusting said guides on said brackets, a substantially U-shaped guide rod having its end portions slidably engaged in said guides, coil springs in the guides yieldingly resisting upward movement of the guide rod, and means in the guides for posi-

tively limiting the sliding movement of the end portions of said guide rod therein.

3. A slicing knife gauge including, a channel bar to be mounted longitudinally on the back portion of a knife blade, brackets projecting laterally from the end portions of said channel bar and having slots therein, a pair of vertical, externally threaded guides mounted for vertical and horizontal adjustment in the slots, nuts threaded on said guides above and below the brackets for securing said guides in adjusted position, a guide rod substantially paralleling the cutting edge of the knife blade and including upturned end portions slidably engaged in the guides, said unturned end portions of said guide rod having elongated recesses therein, stop pins in the guides engaged in the recesses for positively limiting sliding movement of said end portions of said guide rod, and coil springs in the guides engaged with the ends of the guide rod for yieldingly resisting upward movement thereof relative to the cutting edge of the knife blade.

No references cited.