May 17, 1955 L. ROZANSKI 2,708,523

SPRING TENSIONED HOLDING DEVICES

Filed June 4, 1952

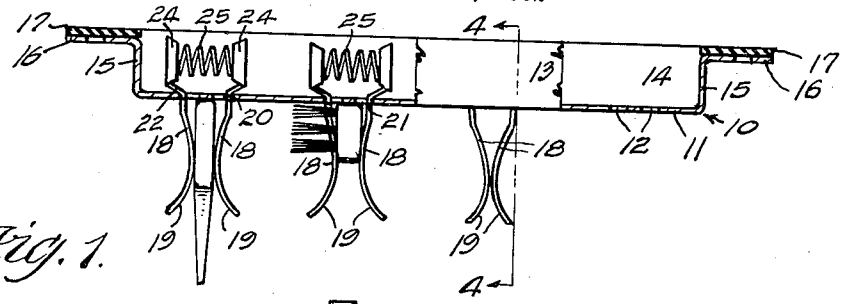


Fig. 1.

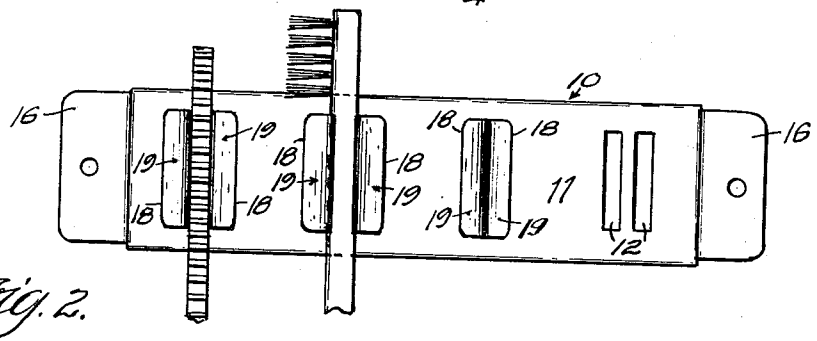


Fig. 2.

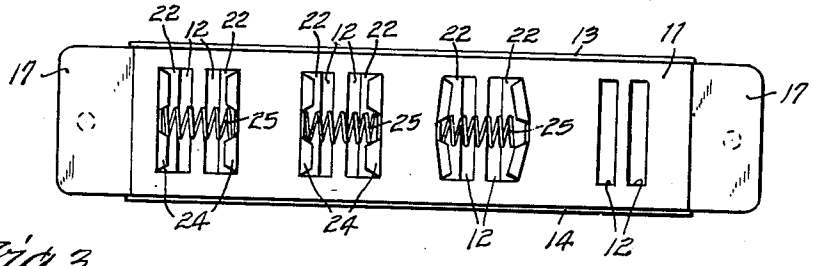


Fig. 3.

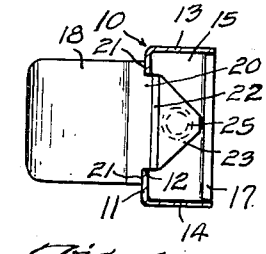


Fig. 4.

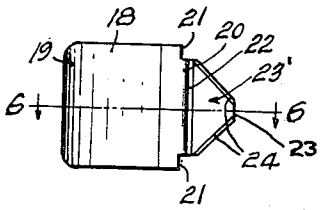


Fig. 5.

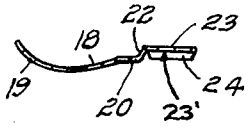


Fig. 6.

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SPRING TENSIONED HOLDING DEVICES

Leo Rozanski, Berkeley City, Mo.

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1 Claim. (Cl. 211—89)

This invention relates to the class of holding devices for detachably supporting various types of articles such, for instance, as tooth brushes, combs, etc., disclosed in U. S. Letters Patent #2,569,021, granted to me September 25, 1951, and, has for its primary object to improve the inner end construction of the article gripping arms, or jaws so as to employ a coiled spring to urge a pair of gripping arms to closed position, and to provide recessed seats for the ends of the spring to engage in.

Other objects and advantages of the invention will be apparent during the course of the following description.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate elements of my improvement are designated by reference numerals in each of the views, and in which:

Fig. 1 is a top plan view of a holding device embodying my invention.

Fig. 2 is a front elevation of Fig. 1.

Fig. 3 is a rear view of Fig. 2.

Fig. 4 is a sectional view taken on line 4—4 of Fig. 1.

Fig. 5 is an inside elevation of one of the gripping arms, or jaws.

Fig. 6 is a view taken on line 6—6 of Fig. 5.

Referring to the drawings wherein is shown a preferred embodiment of my invention, the numeral **10** designates, generally, a casing which includes a front wall **11** having one, or more pairs of spaced parallel slots or slotted openings **12** with each opening wider than the space between each pair of spaced openings, as clearly shown in Figs. 1, 2 and 3. The edges of the front plate **11** terminate in rearwardly directed top, bottom and end walls designated **13**, **14** and **15**, respectively. The rear edges of the end walls **15** terminate in outwardly directed apertured ears **16** which may receive suitable fastening devices for securing the casing **10** to a wall. The rear face of each ear **16** may be provided, or faced with a suitable flexibly resilient pad **17**, the rear faces of which lie in a substantial plane with the rear edges of the top and bottom casing walls **13** and **14**.

The reference numeral **18** designates a plurality of non-resilient article engaging gripping arms or clamp members adapted to be arranged in pairs and carried by the casing **10**, as illustrated in Figs. 1 and 3.

The clamp members **18** are alike in construction and each has an outer reversely curved portion **19** to facilitate spreading the clamp members when receiving an article therebetween, as illustrated in Fig. 1.

The intermediate portion of each clamp member **18** is reduced in width, as at **20**, to provide a pair of spaced shoulders **21** at the junction of the portions **19** and **20**. The portion **20** of each clamp member **18** is provided with a laterally offset fulcrum ledge **22** which is of the same width as the portion **20** and extends between the shoulders **21**. The portion **22** terminates in an inwardly projecting triangularly shaped spring engaging plate or portion **23** having its marginal edges bent inwardly to provide flanges **24** which, together with the adjacent ledge portion **22** serve to provide a flanged, flat seat **23'** for the end of a coiled spring **25** to be seated against and to prevent displacement of the end of the spring thereon, especially when the spring is disposed between the spring

engaging plate portions **23** of two clamp members **18**. One spring **25** is positioned between the plate portions **23** of two adjacent clamp members to cause the outer portion **19** of each pair of clamp members to be spring tensioned.

The spring **25** interposed between the plate portions **23** of each pair of clamp members **18** is designed to urge the flanged inner plate portions **23** away from each other and to urge the outer or long ends of the clamp members toward each other and to afford sufficient spring tension to positively grip any article held therebetween such, for instance, as a comb, tooth brush, or other article capable of being supported between the clamp members **18**.

The reduced inner end portion **20** of each clamp member is fulcrumed at the outer edge of its respective receiving opening **12** with the ledge **22** against the inner surface of the front wall **11** of the casing **10**. The portion **19** thereof lies to the front of the opening **12** in the front wall **11**, with the shoulders **21** engaging the front wall and the rearwardly projecting spring engaging plate portion **23**, as well as the spring **25** all lie to the rear of the front wall **11**.

The width of the openings **12** in the front wall **11** of the casing **10** are just wide and long enough to allow the flanged plate portions **23** to pass therethrough when assembling and disassembling the device.

The many advantages of the herein described device will readily suggest themselves to those skilled in the art to which the invention relates.

It is to be understood that the form of my invention, herewith shown and described, is to be taken as a preferred example of the same, and that various changes in the shape, size and arrangement of parts may be resorted to, without departing from the spirit of my invention, or the scope of the subjoined claim.

What I claim is:

A spring tensioned holding device comprising a casing having a front wall provided with a pair of spaced parallel slots, a pair of opposing and coacting clip members extending movably through the respective slots, said clip members having reversely curved outer portions adapted to receive and frictionally engage an article therebetween, and substantially triangular inner portions disposed within said casing, said inner portions being offset laterally from and narrower than said outer portions, whereby to provide angularly disposed fulcrum ledges at the junction of the inner and outer portions and whereby the outer portions afford pairs of shoulders at the ends of said ledges, said shoulders engaging the outer surface of said front wall to prevent the outer portions of said clip members from entering the casing, said ledges engaging the inner surface of said front wall and affording combined fulcrum means for movement of said clip members toward and away from each other and stop means for limiting movement of the outer portions of the clip members toward each other, a pair of mutually convergent flanges provided on the marginal edges of the inner portions of said clip members and coacting with said ledges to provide substantially triangular spring seats, and a coil compression spring interposed between said inner portions and having its ends disposed in said seats for urging the inner portions apart.

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