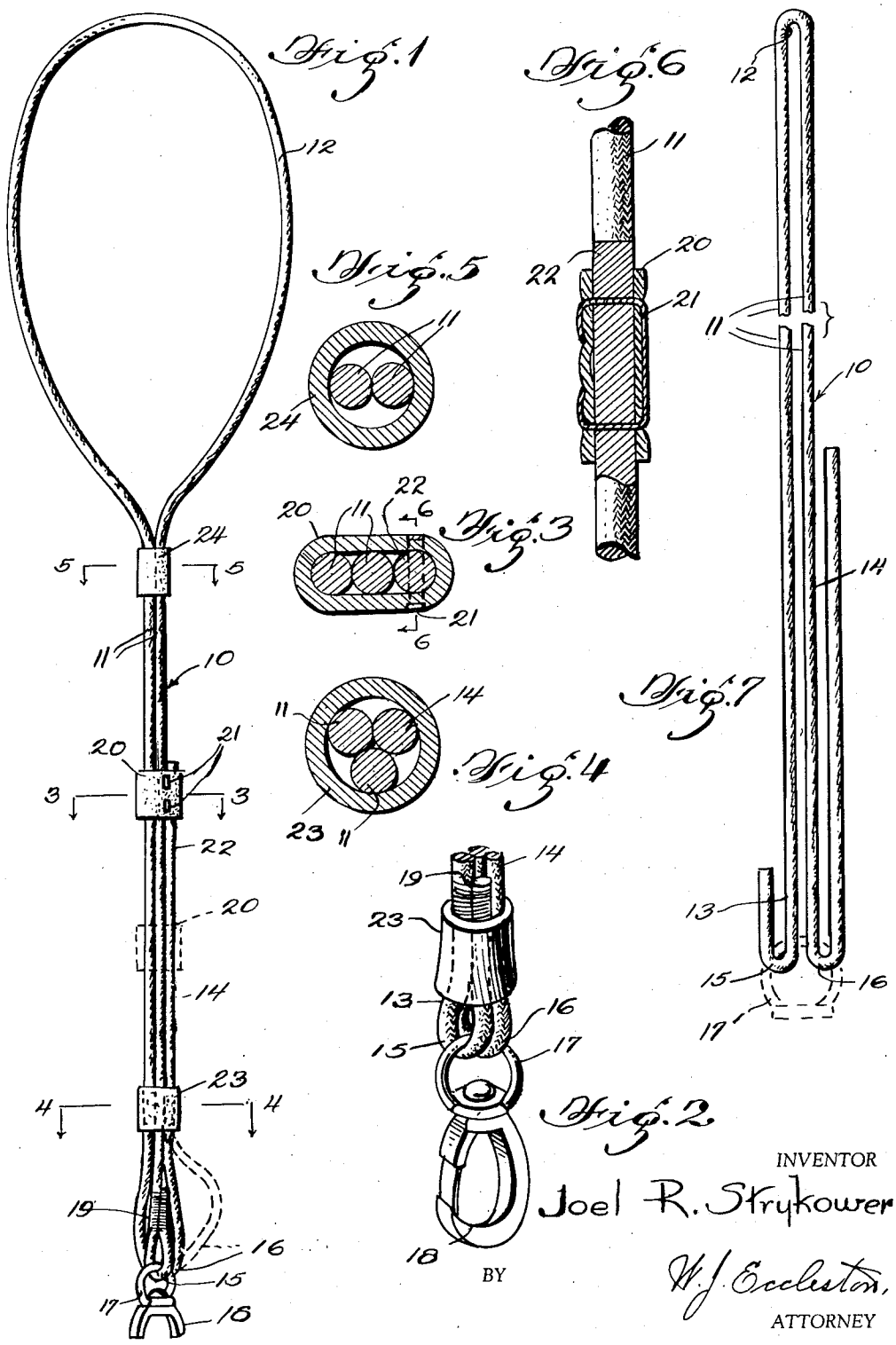
Oct. 30, 1951 J. R. STRYKOWER 2,572,889

ARTICLE CARRYING LANYARD

Filed Sept. 7, 1950



INVENTOR

Joel R. Strykower

BY

W. J. Eccleston,

ATTORNEY

Patented Oct. 30, 1951 2,572,889

UNITED STATES PATENT OFFICE

2,572,889

ARTICLE CARRYING LANYARD

Joel R. Strykower, Philadelphia, Pa.

Application September 7, 1950, Serial No. 183,626

11 Claims. (Cl. 224—5)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1

The invention described herein, if patented, may be manufactured and used by or for the Government for governmental purposes, without the payment to me of any royalty thereon.

My invention relates to lanyards of the type adapted to be slung about the neck or shoulders of a person and including means for readily detachably connecting the lanyard to an article for carrying the latter. Lanyards of this type usually comprise a length of flexible material doubled on itself to provide a bight or loop at one end for encircling the neck or other body portion. The opposite end of a lanyard usually has any suitable means such as a hook or snap hook for detachably connecting the lanyard to the article carried thereby. Such lanyards may include means for varying the length thereof.

With the foregoing in view, it is an object of my invention to provide an improved lanyard of the type described which includes improved means for varying the length thereof.

A further object is to provide in such a lanyard, improved means for locking the lanyard against maladjustment after the same has been adjusted to a selected length.

A further object is to provide improved lanyard length adjusting keeper slidable on the lanyard.

A further object is to provide an improved locking keeper for locking the lanyard in a selected length.

A further object is to provide an improved length adjusting keeper in combination with an improved locking keeper and/or in combination with a particular lanyard.

Other objects and advantages reside in the particular structure of the invention, the structure of the several elements comprising the same, combinations and sub-combinations of such elements, all of which will be readily apparent to those skilled in the art upon reference to the attached drawing in connection with the following specification wherein the invention is shown, described and claimed.

In the drawing:

Figure 1 is an elevational view of a lanyard according to the invention, the parts being shown in unlocked position to permit a length adjustment of the lanyard;

Figure 2 is an enlarged fragmentary perspective view of one end of the lanyard, the parts being shown in the locked position preventing any length adjustment;

Figures 3, 4 and 5 are enlarged horizontal sectional views taken respectively substantially on the planes of the lines 3—3, 4—4, and 5—5 of Figure 1;

Figure 6 is a fragmentary vertical sectional view taken substantially on the plane of the line 6—6 of Figure 3; and

Figure 7 is an elevational view of the flexible member of the lanyard apart from the length adjusting and locking means, and showing the manner in which the same is connected to the article carrying means.

2

Referring specifically to the drawing wherein like reference characters have been used throughout the several views to designate like parts, and referring at first to Figure 7, 10 designates generally any suitable elongated flexible member comprising the lanyard itself. To form the flexible member 10 into a lanyard according to the invention, it is first partially doubled on itself to form a doubled portion 11 which provides at one end a bight 12 for encircling the neck or other body portion of the wearer. By only partially doubling the flexible member 10 upon itself end portions 13 and 14 of unequal length are provided at the opposite end of the lanyard. The end portions 13 and 14 are doubled on themselves to provide bights 15 and 16 respectively which are looped through any suitable means such as the ring 17 of any suitable article attaching means such as the snap hook 18. Thereafter, the free end of the shorter end portion 13 is secured to itself in any suitable manner as by the serving 19. It follows from the foregoing and from Figure 7, that in the region of the ring 17, the flexible member 10 has a quadrupled portion throughout the length of the shorter end portion 13 and a tripled portion throughout the remainder of the length of the longer end portion 14, the remainder of the lanyard comprising the doubled portion 11 aforesaid.

A tubular adjusting keeper 20 surrounds the tripled portion of the flexible member 10 and is freely slidable on two of the elements thereof. However, the keeper 20 is fixedly attached to the free end 22 of the longer end portion 14 by any suitable means such as the staple 21 which passes entirely through the keeper 20 and free end 22 as best seen in Figure 6. Thus, although the bight 15 is of fixed size on account of the serving 19, the bight 16 is of adjustable size on account of the sliding connection between the free end 22 and flexible member 10. Thus, by sliding the keeper 20 up or down on the doubled portion 11 of the flexible member, the size of the bight 16 and overall length of the lanyard can be varied at will in a manner readily understood. Such an adjustment can be maintained as long as excessive strains are not imposed on the bights 15 and 16. Nevertheless, there is a tendency for normal strains on such bights to cause the keeper 20 to move toward the ring 17 whereby to lengthen the lanyard and destroy any previous length adjustment of the same. To prevent this action, it is desirable to provide suitable means of locking bight 16 in the adjusted position. An embodiment of such locking means has been provided by a locking keeper 23 now to be described.

The locking keeper 23 comprises a hollow cylinder of flexible and elastic material which is disposed about the tripled portion of the flexible member 10 and is freely slidable thereon. How-

ever, the locking keeper **23** is so sized that it must be expanded slightly to fit over the quadrupled portion of the flexible member **10**. Thereafter, the resiliency of the locking keeper **23** causes it to jam the elements of the quadrupled portion together, Figure 2, whereby the adjusting bight **16** is locked against adjusting movement and whereby the lanyard itself is locked in a selected adjusted length. Obviously, the parts may be readily released for readjustment simply by sliding the locking keeper **23** off of the quadrupled portion of the flexible member **10** and onto the tripled portion thereof. The adjusting keeper can now be slid upwardly or downwardly on the doubled portion **11** to vary the length of the lanyard as suggested in broken lines in Figure 1.

The bight **12** at the end of the lanyard remote from the article attaching means **18** may be varied in size if desired by means of a keeper **24** of hollow cylindrical configuration and which surrounds the doubled portion **11** above the adjusting keeper **20**. Such keeper **24** operates in a well-known manner and no invention resides therein except in combination with the other elements of the invention.

All three keepers **20**, **23** and **24** may be made of flexible elastic material of any suitable nature but resiliency is essential only in the locking keeper **23** although it is desirable in keeper **24**. The flexible member **10** preferably comprises a cord such as the braided cord shown but obviously can be formed of any other suitable material. Likewise, while I have shown and described what is now thought to be the preferred embodiment of the invention, it is to be understood that the same is susceptible of other forms and expressions. Consequently, I do not limit myself to the precise structure shown and described hereinabove except as hereinafter claimed.

I claim:

1. An article carrying lanyard, comprising article carrying means including a portion providing an eye, an elongated flexible member having an end secured to said eye, said flexible member being doubled on itself to provide a bight at the lanyard end remote from said means and a doubled portion between said bight and said means, a lanyard length adjusting keeper slidable on said doubled portion, said flexible member having an end portion doubled on itself through said eye, and said end portion having an end connected to said keeper to provide a bight of adjustable size, whereby to adjust the length of said lanyard and to provide a tripled flexible member portion between said keeper and said means.

2. The structure of claim 1, a locking keeper slidable on said tripled portion, and means operative upon sliding of said locking keeper into the region of said eye to lock said last-named bight against size adjustment.

3. The structure of claim 2, and a third keeper slidable on said doubled portion between said adjusting keeper and said first-named bight for adjusting the size of the latter.

4. The structure of claim 1, and means for locking said last-named bight in a selected adjusted size.

5. In an article carrying lanyard including an elongated flexible member and article attaching means, said means including an eye; the improvement comprising said flexible member being partially doubled on itself to form a bight providing one end of the lanyard, and a pair of flexible member end portions of unequal length at the other end of the lanyard, both of said end portions being doubled on themselves through said eye to provide a pair of bights connecting said flexible member to said means, the shorter of said end portions being fixedly connected to itself to provide a bight of fixed size, an adjusting keeper slidable on said doubled flexible member, the longer of said end portions having an end fixedly connected to said keeper to provide a bight of adjustable size, whereby to permit an adjustment of the length of said lanyard, and locking means for releasably locking said last-named bight against size adjustment.

6. The structure of claim 5, said doubled end portions of said flexible member providing a quadrupled flexible member portion in the region of said eye and a tripled flexible member portion between said quadrupled portion and said adjusting keeper, said locking means comprising a locking keeper freely slidable on said tripled portion, and said locking keeper being adapted to be forced onto said quadrupled portion to jam the elements of the same together whereby to lock said last-named bight against size adjustment.

7. The structure of claim 6, and said locking keeper comprising a tubular member of flexible resilient material.

8. The structure of claim 7, said adjusting keeper being a flexible tubular member, and a staple passing entirely through said adjusting keeper and free end of said longer flexible member end portion whereby to secure such free end to said adjusting keeper.

9. The structure of claim 8, and a third keeper slidable on said doubled flexible member between said adjusting keeper and said first-named bight to vary the size of the latter.

10. In an article carrying lanyard including an elongated flexible member, article attaching means and connecting means connecting said member and article attaching means together; the improvement comprising said flexible member being doubled on itself to form a bight providing one end of said lanyard and a pair of flexible member end portions defining the opposite end of the lanyard, said end portions being doubled on themselves to provide a pair of bights, said pair of bights being secured to said connecting means to connect the latter to said flexible member, one of said doubled end portions being fixedly secured together to provide a bight of fixed size, an adjusting keeper slidable on said doubled flexible member, the other end portion having a free end fixedly secured to said adjusting keeper whereby to provide a bight of adjustable size and comprise means for varying the length of the lanyard.

11. The structure of claim 10, and means for locking said last-named bight against size adjustment.

JOEL R. STRYKOWER.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,660,740	Bailey	Feb. 28, 1928
2,356,209	Brilhart	Aug. 22, 1944
2,457,195	Bagnall, Jr.	Dec. 28, 1948
2,467,487	Leon	Apr. 19, 1949

FOREIGN PATENTS

Number	Country	Date
476,105	Great Britain	Dec. 1, 1937