Oct. 27, 1970 M. LELY 3,535,748

WEARING APPAREL SAFETY RETAINING MEANS

Filed July 25, 1967

Fig. 1

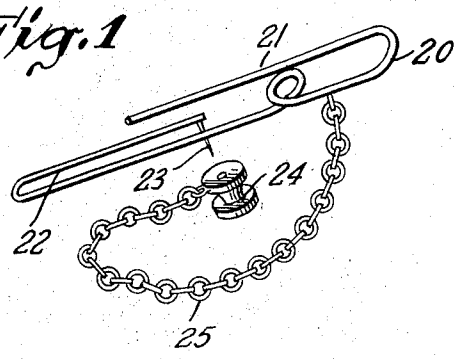


Fig. 2

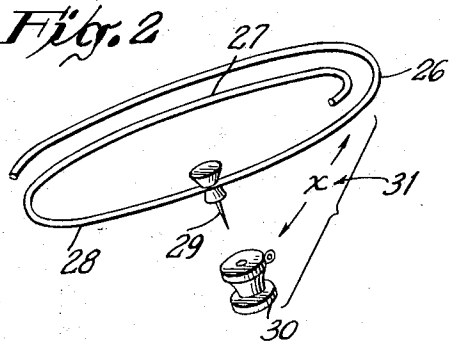


Fig. 3

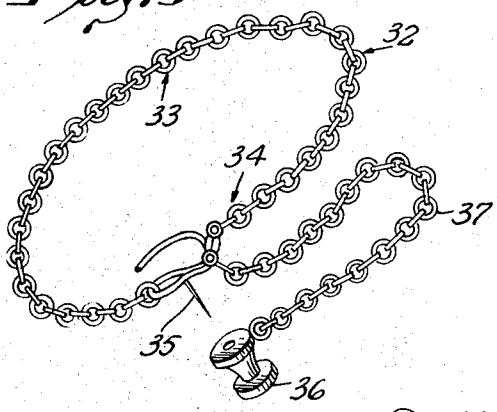


Fig. 4

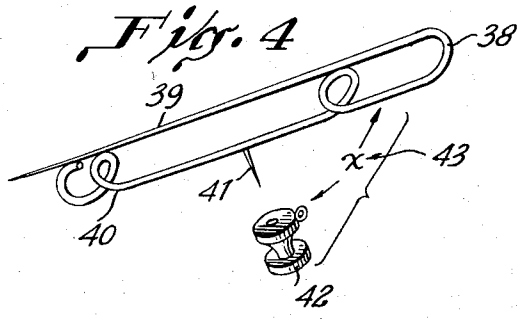


Fig. 5

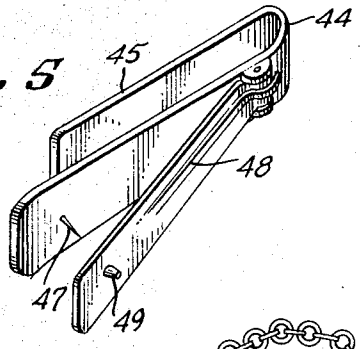


Fig. 6

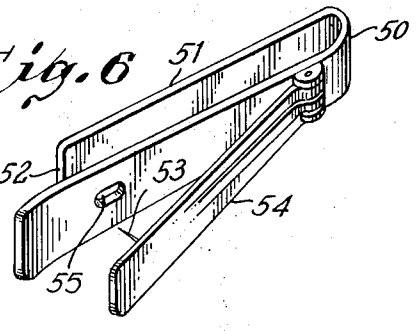


Fig. 7

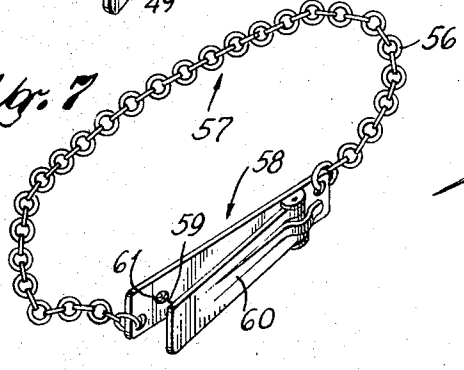
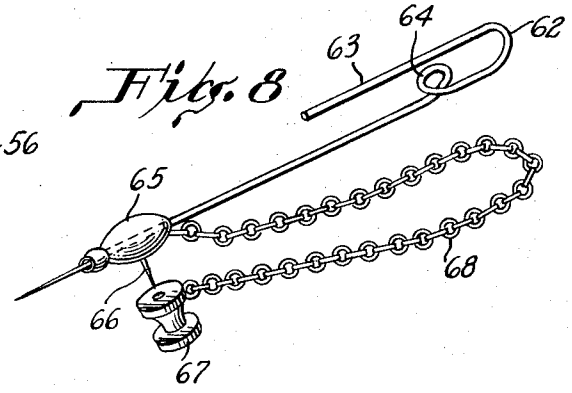


Fig. 8



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WEARING APPAREL SAFETY RETAINING MEANS

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Continuation-in-part of applications Ser. No. 145,789, Oct. 18, 1961, and Ser. No. 368,815, May 20, 1964.
This application July 25, 1967, Ser. No. 663,196
Int. Cl. A41d 25/06
U.S. Cl. 24—49 17 Claims

ABSTRACT OF THE DISCLOSURE

This invention denotes principles in pinning and fastening means and relates to an article, a commodity, having material engaging portions, said commodity has as additional means a combination comprising material or materials pinpost piercing means and material fastening means having means adapted to retain in pin fixed engagement the material or materials piercingly engaged by said piercing means and retain said commodity in safe attachment in relation to said combination, and said combination of piercing and fastening means is invertible, equational and operative in quality and in rapport to each other.

This application is a continuation-in-part of patent application Ser. No. 145,789 filed Oct. 18, 1961 and patent application Ser. No. 368,815 filed May 20, 1964, both now abandoned.

The object of this invention relates to an article, a commodity, having material engaging portions intended for optional engagement in relation to a portion or portions of material or materials as to an article or articles of wearing apparel, and the object of said optional engagement in relation to a portion or portions of material or materials is intended to prevent damage or abuse to the commodity or the material and for a more facile mode of engagement, said commodity having as additional means a combination comprising material pinpost perforating means and material fastening means, said material pinpost perforating means is a supplement to the physical limitation in retaining capacity and quality of material engaging portions, and said piercing means is intended for optional piercing engagement in relation to a portion or portions of material or materials as to an article or articles of wearing apparel, and said material fastening means having means that in alliance with said pinpost piercing means are adapted to retain in firm pin fixed engagement the material or materials optionally pierced and engaged by said pinning means, and retain said commodity in safe attachment relative to said combination, material pinpost piercing means and material fastening means, said material fastening means is a clutch having means adapted to engage and retain in gripping engagement a portion of said pinpost piercing means, or a composition of components comprising spring hinged clip action, pinpost piercing means, and a portion to co-act with a hinged portion so as to retain the material piercingly engaged in firm engagement.

Said commodity having material engaging portions as material clasping means or material engaging means, or as material piercing and fastening means, or as material pinning and clasping means, or as material flexible engaging means, or as flexible material receiving means, and said commodity can be fashioned from material that has quality of rigidity or is soft or flexible, or a combination of same, rigid as spring metal, or material having limited physical tolerance in retaining quality, soft material as low grade metal, or material that is poor in retaining quality and can be easily distorted by abusive application, or a flexible element or flexible means as a

compound comprising a composition of components having foldable quality to form an open loop, or a closed loop, or looped means.

Still another objective of the invention relates to a commodity having material engaging portions, as material clasping means or material pinning fastening means that within its formation or a portion of its formation retain at least a small portion of material, and said material engaging portions can be very small in size, and light in weight having, per se, physical limitations in retaining capacity to be of practical use, wherein said combination comprising pinpost perforating means and material fastening means is adapted to retain said commodity in attachment in relation to the material and materials piercingly engaged, it also relates to flexible means that can be very small in size, as a flexible element or a compound comprising a composition of components that are flexible in quality so as to form a flexible open loop, or a closed flexible loop, or looped flexible means having as connected components and spaced apart from each other material pinpost piercing member and material fastening member, a clutch, having means to engage and retain said pinpost so as to retain said flexible means in attachment in relation to that portion or portions of material or materials engaged by said pinpost piercing member and retain said flexible means in association in relation to the material or materials optionally pierced by said pinpost piercing member.

Still another objective of the invention relates to a commodity having material engaging portions that within its formation retains at least a small portion of material as a portion of material of an article of wearing apparel, and said commodity can be an open loop, or a closed loop, or a looped body or holding means of any desired size, configuration or formation, and will remain in attachment relative to a combination of material pinpost piercing means and material fastening means, said material fastening means, a clutch, having means adapted to engage and retain in gripping engagement a portion of said pinpost piercing member, or said pinning and fastening means is a combination of components comprising a hinged clip, pinpost piercing means and a portion to co-act with hinged portion of said clip so as to retain the material piercingly engaged in firm engagement, and in application this commodity will not abuse itself, and can adjust itself in relation to bulky or light weight material, and the object of optional engagement is intended not to place undue strain on the engaging means and will retain the material in a graceful manner, and said commodity in disengagement from the material engaged is adapted to remain in attached pin anchored position relative to said combination, what is of essence is that the optional method of engagement in relation to a portion or portions of material is intended to preserve the status quo and the inherent quality of said material engaging means by allocating the excess amount of material or materials that is not within the physical retaining quality or capacity of said commodity to a supplement, a combination comprising material pinpost piercing means and material fastening means.

Therefore, it is quite obvious that said commodity with said composition of components having an optional and systemized mode of engagement is a new concept in engagement by material engaging means and material pinning and fastening means, and said commodity can be manufactured economically, can be of the smallest in size, the lightest in weight and it can make use of low grade metals and materials, and a composition of constituent matter that is not possible with the present fastening means in usage, and said commodity remains functional in quality, versatile in engagement, useful and practical under all expected conditions of use and it is easy

to be applied and removed and will retain itself in safe attached position against accidental displacement and is practically loss-proof.

The simplicity and naked and unadorned quality of the drawings in this application are intended to show a composition of components that define basic principles in material or materials piercing means and fastening means, and the framework can be utilized for unrestricted ornamentation and styling, or supplemented with additional components having other useful purposes.

Therefore some of the embodiments of the invention selected and intended for the purpose of illustration, evaluation and description are shown in the accompanying drawings wherein: FIGS. 1 to 8 show prospective and different forms of the invention embodying a composition of components, a commodity having material engaging portions and additional means comprising a combination of material pinpost piercing means and material fastening means having means adapted to retain in pinned firm engagemet the material piercingly engaged and retain said commodity in safe attachment relative to said combination.

Referring first to FIG. 1, a clasp **20**, fashioned from spring wire having portions **21** and **22** adapted to retain in clasping engagement at least a portion of material, pinpost piercing member **23** secured to a rear portion for optional piercing engagement in relation to a portion or portions of material and locking means, a clutch **24**, having means to grip and retain a portion of pinpost **23** and an intermediate flexible portion **25**, illustrated as a chain, adapted to connect said clutch to the rear portion of the clasp or a portion thereof.

FIG. 2, a looped body **26**, fashioned from spring wire, to form a receptor **27** and **28** adapted to receive at least a portion of material, pinpost piercing member **29** secured on a sleeve for movement, and movable in relation to the rear portion **28** or a portion thereof for optional rearward or forward piercing engagement to a portion or portions of material, locking member **30**, a clutch, having means to engage and retain said pinpost, **X31**, an intermediate portion or a medium of associating locking means **30** to looped body **26** or a portion thereof so that locking member **30** is in operative movable relation and in rapport for engagement to pinpost **29**.

FIG. 3, flexible means **32**, illustrated as a chain, a portion of said flexible means **32** in combination with a bent portion of an open loop to form a receptor **33** and **34** adapted to engage at least a portion of material, said open loop connected to an end portion of flexible means **32** and having as a component a pinpost piercing member **35** for optional piercing engagement in relation to a portion or portions of material, and locking member **36**, a clutch, connected to an end portion of flexible means **37** that is a continuity of flexible means **32**, said clutch having means adapted to engage and retain a portion of pinpost **35**.

FIG. 4, material piercing and retaining means **38**, fashioned from spring wire, comprising a front portion **39** for piercing engagement to at least a portion of material and an end portion of said rear portion **40** adapted to retain in fastened engagement the material pierced by the piercing portion **39** or another portion illustrated as a looped portion, a component of said rear portion **40**, to co-act with a portion of a front portion **39** so as to retain in clasping engagement the material engaged by said material piercing means **39**, a pinpost member **41** for optional piercing engagement in relation to a portion or portions of material and a locking member **42**, a clutch, said clutch having means adapted to engage and retain a portion of pinpost **41**, **X43**, an intermediate flexible portion or articulated means adapted to connect locking means **42** to a rear portion of **40** or a portion thereof.

FIGS. 5, 6 and 7, a commodity, illustrates a different embodiment of the invention having also a principle in pinning and fastening means, equational in relation and in rapport to each other, wherein I have the hinged spring locking action of a hinged portion, and other means that co-act with said hinged portion so as to retain in firm pinned engagement the material or materials pierced by pinpost piercing means, this result is accomplished by trifurcating an end portion of a hinged portion, and utilizing the two outer portions for making a pivotal connection to the hinge portions, and the center portion of said hinged portion to co-act with a portion of said hinge so as to form a clip in known manner and remain in association in relation to a rear portion of the commodity.

FIG. 5, a clasp **44** having a front portion **45** and a rear portion **46** adapted to retain in clasping engagement at least a portion of material, hinged means secured to a rear portion **46** to form a clip, a hinged portion **48** having spring locking action to project forwardly so as to remain in association in relation to the rear portion **46**, said rear portion **46** having as a component pinpost piercing member **47** for optional piercing engagement in relation to a portion or portions of material and said hinged portion **48** having as a component a portion **49** adapted to receive or engage a portion of said pinpost **47** and said means **49** to co-act with the spring hinged portion **48** and retain in firm engagement the material or materials piercingly engaged.

FIG. 6, a clasp **50** having a front portion **51** and a rear portion **52** adapted to retain in clasping engagement at least a portion of material, hinged means secured to the rear portion **52** to form a clip, a hinged portion **54** comprising spring locking action and having as a component a pinpost **53** for optional piercing engagement in relation to another portion or portions of material, said hinged portion **54** to project forwardly so as to remain in association in relation to the rear portion **52** and means **55** in said rear portion **52** adapted to receive or engage a portion of said pinpost **53** and said means **55** to co-act with the spring hinged portion and retain in pinned firm engagement the material or materials piercingly engaged.

FIG. 7, an enclosure **56** having a front portion **57** and a rear portion **58**, said enclosure adapted to receive at least a portion of material ,hinged means secured to a rear portion **58** to form a clip, a hinged portion **60** comprising spring locking action and having as a component a pinpost **59** for optional piercing engagement in relation to another portion or portions of material, said hinged lever **60** to project forwardly so as to remain in association in relation to the rear portion **58**, and means **61** in said rear portion **58** adapted to receive or engage a portion of said pinpost **59** and said means **61** to co-act with spring hinged portion **60** and retain in pinned firm engagement the material or materials piercingly engaged.

FIG. 8, an open loop **62**, fashioned from spring wire, having a front portion **63** to co-act with at least a portion of a rear portion **64** so as to retain in clasping engagement at least a portion of material, a rear portion **64** adapted to receive a clutch **65** having as a component a pinpost piercing member **66** for optional piercing engagement in relation to a portion or portions of material and locking member **67**, a clutch, having means to engage and retain said pinpost **66**, and an intermediate flexible portion **68**, illustrated as a chain, to associate said locking member **67** to the clutch **65** or a portion thereof, said clutch **65** is in usage as a guard to prevent disengagement of the material from pinning means, I utilize the gripping quality of said clutch by inserting and positioning said clutch **65** on a rear portion of **64** and the locking quality of said clutch **65** is adapted to retain said clutch in a stationed fixed position in any desired location on said rear portion **64**, and said clutch **65** having as a component pinpost piercing member **66** adapted to revolve relative to that portion where it is stationed to by clutch **65**, and said pinpost piercing member **66** can be utilized for optional rearward or forward piercing engagement in relation to a portion or portions of material or materials, also said composition of components **65**, **66**, **67** and **68** can be a component of a commodity having means or a portion where **65** can be secured to.

Referring to the commodity as in FIGS. 1, 2, 3, 4 and 8, said combination of material pinpost piercing means and material fastening means can be inverted and placed one in place of the other, and are operative in quality of relation whether it is a flexible portion that associates said means relative to the commodity, or are articulated means that associates one of said means relative to said commodity, what is of essence is that said pinpost is in operative rapport with fastening means and said fastening means is in operative rapport to the pinpost.

Referring to FIGS. 5, 6 and 7, I do not limit myself to any clip action and my invention does not relate to any special clip but the utilization of said means.

In FIG. 5, a portion **49** that protrudes from a hinged portion of **48** is adapted to receive or engage a portion of pinpost piercing component and is also adapted to prevent the exposure of the pinpost point.

In FIG. 6, a portion shown as an opening **55** is adapted to receive or engage pinpost **53**.

In FIG. 7, a portion **61**, also shown as an opening as in FIG. 6.

This invention is not limited to any particular pinpost receiving or engaging means, said means can be an opening, a protruding portion, a furrow, a hole or a related portion that has as intent to protect the piercing quality of the pinpoint and said receiving or retaining means can have or have not ony physical contact with said pinpost, what is of essence is that said receiving or engaging means are there to co-act in rapport with a hinged portion so as to retain the material piercingly engaged in firm engagement.

Said commodity has innumerable uses but for better evaluation I choose a tie to demonstrate some suggested useful and versatile modes of engagement, and I also use the knotting capacities of said tie wherein normally only the wider portion is visible, or I utilize the narrower portion of the tie for knotting purposes wherein in knotted engagement both the wider portion and the narrower portion are visible and the narrower portion rests over the wider portion of the tie.

It is also intended for the artist and the artisan to understand that strong material retaining quality is not of essence, and he can freely express his talent to fashion creations not possible with present means in usage, and make use of material and materials or combinations of materials intended for useful and ornamental purposes.

It is also intended for the user to utilize the versatile quality and capacity of material engaging means for any intended use that is within its capacity and quality, and create various modes of useful application without abuse to the commodity.

Referring to FIG. 1, clasping portions to engage a portion of a front portion (the wider portion) of a tie, pinpost piercing means for piercing engagement to the second portion (the narrower portion) of a tie and the front portion of a shirt, and a clutch to engage pinpost piercing member and said clasp remains in pinned posted attachment. With this mode of engagement said clutch in combination with pinpost sustains, stabilizes and supports the clasp, and the clasping quality is not disturbed by the motion caused by the activity of the user and also preserves the knotting quality of the tie, and the front portion of the tie in disengagement from the clasping portions, the clasp remains in attached anchored position to the second portion of a tie and a front portion of a shirt.

Another suggested mode of engagement wherein the narrower portion of the tie is placed over the wider portion of the tie, and clasping portions for clasping engagement to at least a small portion of the narrower portion of the tie, pinpost piercing member for piercing engagement to the wider portion of the tie, and a clutch to engage the pinpost and retain the clasp in pinned attachment relative to the second portion of the tie. This

mode of engagement is intended to show that a small clasp having limited physical retaining capacity can in a practical manner remain in engagement.

Clasping portions to retain in optional clasping engagement either a front portion of a tie or both portions of a tie, pinpost piercing means for optional piercing engagement to a second portion of a tie or a front portion of a shirt, or both, and a clutch flexibly connected to a rear portion of the clasp. Said flexible means to be positioned over the front portion of a tie and said clutch to engage said pinpost and retain the material optionally pierced in firm engagement. With this mode of engagement both the flexible means and the front portion of the clasp are visible and said flexible means can be ornamented and utilized to enhance the styling quality of said clasp.

Clasping means to engage the front portion of a shirt, pinpost means for piercing engagement to a second portion of a tie, a clutch connected to one end portion of a flexible portion and the other end of the flexible portion to be secured to a rear portion of the clasp. Said flexible portion to be positioned over the front portion of a tie and said clutch to engage said pinpost so as to retain in pin fixed engagement the second portion of a tie. With this mode of engagement I have reversed the clasp wherein said pinpost projects forwardly and has no physical contact with a front portion of a tie and only the flexible means are visible.

The object of the invention is an optional mode of engagement intended to prevent abuse to the material it engages or the clasp, but if the material is sheer said clasping portions can engage both portions of a tie and a front portion of a shirt provided said engagement is within the physical retaining capacity of said clasping portions and said clasp is retained in pinned attachment to an undergarment portion by the clutch that engages the pinpost.

In FIG. 1, this clasp, fashioned from spring wire is not confined to any specific formation, or can be fashioned from material having some quality of rigidity.

Referring to FIG. 2, some suggested modes of engagement, a receptor, adapted to receive a front portion of a tie, pinpost means for piercing engagement to a second portion of a tie and a front portion a shirt and a clutch to retain in fastened engagement the material piercingly engaged to a front portion of a shirt.

If the material is not bulky the receptor can receive both portions of a tie, and a pinpost to pierce a front portion of a shirt and a clutch to engage pinpost and retain in locked engagement the material piercingly engaged to a front portion of a shirt.

A receptor to engage both portions of a tie, pinpost pivotally connected to a rear portion of the receptor to engage the rear portion of a second portion of a tie, and a clutch to engage pinpost piercing means and retain in fastened engagement the material piercingly engaged. With this mode of engagement the clutch remains hidden between the two folds of a tie.

A receptor to engage the second portion of a tie, a clutch connected to an end portion of a flexible portion and other end of flexible portion secured to a rear portion of the receptor, said flexible portion to be positioned over the front portion of a tie and said clutch to engage a pinpost that is secured to a rear portion of the receptor. With this mode of engagement only the flexible portion is visible.

Said receptor, fashioned from spring wire, is not limited to any specific formation, it can be fashioned from low grade metal or material that has poor tolerance in retaining quality, or soft material that can be easily distorted by abuse of application.

Said pinpost secured on a movable portion can be an embodiment of a commodity having material engaging portions as material clasping means, as material pinning fastening means, as material flexible retaining means and

with the hinged portion and retain the material optionally pierced by the pinpost between the rear portion of the enclosure and the front portion of the hinged portion.

In FIG. 7, the greater part of the enclosure is formed from a chain portion, and said enclosure is not limited to a flexible portion, it can be an element adapted to form an enclosure or a composition of components having ornamental quality.

Referring to FIG. 8, said clasp can be of any desired formation and has the same optional engagement in relation to tie portions and shirt portions, the shorter front portion to co-act with at least a portion of the rear portion so as to retain in clasping engagement at least a portion of a tie, and said clutch with a pinpost can be adjusted and positioned in any desired manner to a rear portion of the clasp to cope with different widths of ties, and said pinpost is intended for optional rearward or forward piercing engagement in relation to tie portions and shirt portions.

The object of this invention does not relate to any special engaging means, and is a new concept in material engaging means and material pinning and fastening means, useful, versatile and operative and can be variously modified.

What is claimed is:

1. A commodity such as material clasping means, such as material pinning fastening means, such as material flexible retaining means having material engaging portions for optional engagement in relation to a portion or portions of material as to an article or articles of wearing apparel, said commodity having as additional components a combination comprising material perforating pin post piercing means and material fastening means, said material pinpost means, a component for optional piercing engagement in relation to a portion or portions of material as an article or articles of wearing apparel, said material fastening means having means adapted to retain in firm pin fixed engagement the material or materials optionally pierced and engaged by said pinpost piercing component and retain said commodity in attachment relative to said combination and to the material or materials optionally pierced, said optional engagement in relation to a portion or portions of material or materials is intended to prevent damage to the commodity or the material and for a more facile mode of engagement.

2. According to claim 1 wherein pinpost piercing component is secured to a portion thereof and said material fastening component is a clutch that is flexibly connected to the commodity or a portion thereof.

3. According to claim 2 wherein said combination of pinpost piercing component and material fastening component are connected to flexible coupling means.

4. According to claim 1 wherein said combination pinpost piercing component is secured to a movable portion and the material fastening component is a clutch having means to engage the pinpost piercing component.

5. According to claim 4 wherein said combination of pinpost piercing component and material fastening component are coupling means wherein at least one of said components is connected by an intermediate flexible portion relative to the movable portion or a portion thereof.

6. According to claim 1 wherein said combination of material pinpost piercing component and material fastening component, a clutch, are both flexibly connected by intermediate flexible portions relative to the commodity or a portion thereof.

7. According to claim 1 wherein said combination of material pinpost piercing component and material fastening component are connected to the commodity or a portion thereof, and said combination comprises a composition of components having a hinged clip portion, a pinpost piercing component, and a receiving portion to co-act with hinged clip portion so as to retain said pinpost piercing component in engagement.

8. According to claim 1 wherein said combination of material pinpost piercing component and material fastening component are connected to the commodity or a portion thereof and said combination comprises a composition of compnents having a hinged portion, a pinpost component, and a material fastening portion adapted to engage and retain said pinpost.

9. According to claim 1 wherein said combination is one in which one of said components is fixedly secured on a rear portion thereof, and in which the other said component is secured on a lever connected to the commodity or a portion thereof by a connection which includes spring means for holding the lever associated in relation to a rear portion of the commodity and a portion adapted to engage pinpost piercing means to co-act with spring lever portion so as to retain said pinpost piercing member in engagement.

10. A clasp having a front and a rear portion, one of said portions having as additional components a hinged clip, material piercing pinpost pointed component, and a portion adapted to receive at least a portion of said pinpost component that co-acts with a hinged clip portion so as to retain in firm pinned association that excess amount of material that is not within the physical retaining capacity of said clasping portions.

11. An enclosure having a front and a rear portion, a rear portion having as additional components a hinged clip member, a material percing pinpost member, and a portion adapted to receive a portion of a pinpost piercing member and co-act with said hinged clip portion so as to retain in pinned firm engagement that excess amount of material that is not within the physical retaining capacity of said enclosure.

12. Clasping means having portions adapted for optional engagement in relation to a portion and portions of material, as an article or articles of wearing apparel, said clasping means having as a component substantially smooth pinpost piercing member secured and projecting at an angle from an outer portion for optional piercing engagement in relation to another portion or portions of material as an article or articles of wearing apparel, and a clutch having means adapted to retain in pinned fixed engagement the material or materials optionally engaged by said pinpost piercing component.

13. Flexible means to form an open flexible loop having as components material pinpost piercing member and material fastening member, both of said components connected and spaced apart from each other and in operative relation to each other, said pinpost piercing member for optional piercing engagement in relation to a portion or portions of material as an article or articles of wearing apparel, said fastening member a clutch having means adapted to engage said pinpost member so as to retain in pin fixed engagement that portion or portions of material or materials optionally engaged by said pinpost piercing member and retain said open loop portions in attachment and association in relation to material or materials optionally pierced by said pinpost piercing member.

14. A closed flexible loop according and as in claim 13.

15. A commodity suoh as material clasping means, such as material pinning fastening means, such as material flexible retaining means that in engagement or in disengagement from the material or materials engaged is adapted to remain in attachment in relation to that portion or portions of material pierced by material pinpost means and is retained in pin fixed engagement by a clutch having means adapted to engage said pinpost piercing means, said commodity is adapted for optional engagement in relation to a portion or portions of material as an article or articles of wearing apparel so as to prevent damage to the commodity or the material and for a more facile mode of engagement, said pinpost piercing means, a component, for optional piercing engagement in relation to a portion or portions of material or materials as an article or articles of wearing apparel, and said material fastening means, a clutch

adapted to retain in a predetermined attachment said commodity relative to the material or materials piercingly engaged by said pinpost piercing romponent.

16. Clasping means having portions adapted to selectively engage at least a portion of an article of wearing apparel, said clasping means having as a component a substantially smooth material piercing pinpost member secured and projecting at an angle from an outer portion thereof and a clutch having means adapted to engage said pinpost piercing component, said clasping means in engagement or in disengagement from the material or materials is adapted to remain in attachment in relation to that portion or portions of material pierced by said pinpost piercing component and retained in pin fixed engagement by a clutch, said clasping means comprising an optional method of engagement in relation to a portion or portions of material as an article or articles of wearing apparel so as to prevent damage to the clasping means or the material and for a more facile mode of engagement, said pinpost piercing component for optional piercing engagement in relation to a portion or portions of material as an article or articles of wearing apparel and said clutch adapted to retain in predetermined attachment said clasping means relative to the material or materials piercingly engaged by said pinpost piercing component.

17. A commodity comprising flexible means having

pinpost on an end portion, a clutch on another end portion, and means for enabling said flexible means to be formed into an adjustable closed loop adapted to surround a portion of an article of wearing apparel, said pinpost being adapted to pierce a portion of material to secure said commodity thereto and said clutch being adapted to grip said pinpost.

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