

COMMONWEALTH OF AUSTRALIA

PATENTS ACT 1952

10975/88  
**598338**

NON-CONVENTION APPLICATION FOR A STANDARD PATENT

APPLICATION ACCEPTED AND AMENDMENTS

ALLOWED ..... 27-3-90 .....

I/We Jiann-Jong Chen and Ching-Hwa Chen

of 21, Alley 21, Lane 244, Sec 5,  
Yen-Ping Horth Road, Taipei, Taiwan

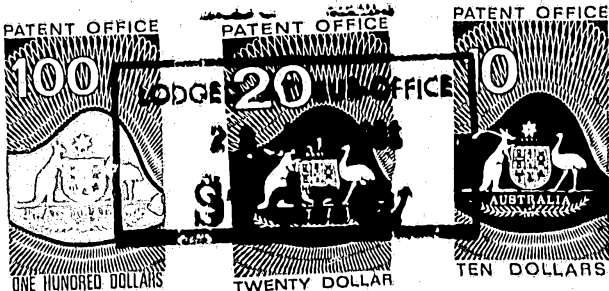
hereby apply for the grant of a Standard Patent for an invention  
entitled: Novel Preset Necktie

which is described in the accompanying Complete Specification.

LODGED AT SUB-OFFICE  
28 JAN 1988  
**Sydney**

My/Our Address for Service is Anderson-Taylor & Associates, Registered  
Patent and Trade Mark Attorneys of 85A Carina Road Oyster Bay N.S.W.  
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Dated this 28th day of January, 1988



Jiann- Jong Chen & Ching-Hwa Chen  
By their Patent Attorney

*M. Anderson-Taylor*  
MICHAEL ANDERSON-TAYLOR

TO: The Commissioner of Patents

\$130.00

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COMMONWEALTH OF AUSTRALIA

THE PATENTS ACT 1952

AUSTRALIA  
NON-CONVENTION  
STANDARD  
& PETTY PATENT  
DECLARATION

SFP3

DECLARATION IN SUPPORT OF AN  
APPLICATION FOR PATENT

In support of the Application made

Full name(s)  
of Applicant(s)

by Jiann-Jong Chen and Ching-Hwa Chen

for a patent for an invention entitled:

Novel Preset Necktie

Title of  
Invention

~~I/We~~ Jiann-Jong Chen and Ching-Hwa Chen

Full name(s) and  
address(es) of Declarant(s)

21, Alley 21, Lane 244, Sec 5, yen-Ping North Road, Taipei  
Taiwan

do solemnly and sincerely declare as follows:

1. ~~I am/We~~ are the applicant(s) for the patent.

~~(or, in the case of an application by a body corporate)~~

~~I am/We are authorised by~~

Full name(s) of  
Applicant(s)

~~the applicant(s) for the patent to make this declaration  
on its/their behalf.~~

2. ~~I am/We~~ are the actual inventor(s) of the invention.

~~(or, where a person other than the inventor is the applicant)~~

2.

Full name(s) and  
address(es) of  
Inventor(s)

of

(respectively)

is/are the actual inventor(s) of the invention and the facts  
upon which the applicant(s) is/are entitled to make the  
application are as follows:

Set out how Applicant(s)  
derive title from actual  
inventor(s) e.g. The  
Applicant(s) is/are the  
assignee(s) of the  
invention from the  
inventor(s)

Declared at

Taipei

this

17th

day of October,

19 89

Jiann-Jong Chen, CHING HWA CHEN  
Signature of Declarant(s)

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(12) PATENT ABRIDGMENT (11) Document No. AU-B-10945/88  
(19) AUSTRALIAN PATENT OFFICE (10) Acceptance No. 598338

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(54) Title  
ZIPPERED NECKTIE

International Patent Classification(s)  
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(21) Application No. : 10945/88 (22) Application Date : 28.01.88

(43) Publication Date : 03.08.89

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JIANN-JONG CHEN; CHING-HWA CHEN

(72) Inventor(s)  
JIANN-JONG CHEN; CHING-HWA CHEN

(74) Attorney or Agent  
ANDERSON-TAYLOR & ASSOCIATES

(57) Claim

1. A preknotted adjustable necktie comprising an inner tie member and an outer tie member, the inner tie member having a loop portion which in use encircles a wearer's neck and a depending portion which extends down from said loop portion, the junction between said loop and depending portions including a zipper ~~fastener~~<sup>slider</sup> with the pull tab of the zipper slider being secured to a knot-forming support body for said outer tie member in a manner whereby said inner tie member is slidable through a hollow interior of said support body to enable adjustment of the size of the loop portion to fit the wearer's neck, wherein a spring pressure plate is disposed on the back side of the zipper slider and presses against the zipper teeth to prevent inadvertent loosening of the necktie.

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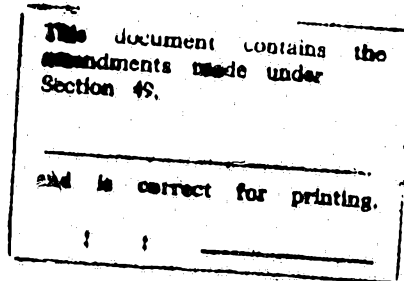
COMPLETE SPECIFICATION

FOR OFFICE USE

Short Title:

Int. Cl.

Application Number:  
Lodged:



Complete Specification Lodged  
Accepted:  
Lapsed:  
Published:

Priority:

Related Art:

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TO BE COMPLETED BY APPLICANT

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Actual Inventor: As above

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Complete Specification for the invention entitled:

NOVEL PRESET NECKTIE

The following statement is a full description of this invention  
including the best method of performing it known to me:-

In zipper pre-set neckties, the size of the tie loop is usually adjusted by means of a zipper. However since the pull tab of the zipper slider is secured to the inner side of a support body, it cannot be turned over as in the case of using the zipper in a conventional manner. Thus the spine-shaped stopper pin provided on the inner side of the pull tab of a conventional zipper has to be removed (zippers of larger sizes are provided with stopping means on the suspended tabs) or the slider cannot be moved. Therefore with conventional preset neckties there is the disadvantage that the tie loop occasionally tends to become loose by itself, thus making them less desirable.

It is therefore an object of this invention to ameliorate the aforementioned disadvantages and accordingly a preknotted adjustable necktie is disclosed which comprises an inner tie member and an outer tie member, the inner tie member having a loop portion which in use encircles a wearer's neck and a depending portion which extends down from said loop portion, the junction between said loop and depending portions including a zipper ~~fastener~~<sup>slider</sup> with a pull tab of the zipper slider being secured to a knot-forming support body for said outer tie member in a manner whereby said inner member is slidable through a hollow interior of said support body to enable adjustment of the size of the loop portion to fit the wearer's neck, wherein a spring pressure plate is disposed on the back side of the zipper slider and presses against the zipper teeth to prevent inadvertent loosening of the necktie.

The invention will now be described in greater detail with reference to the accompanying drawings in which:

Figure 1 shows the structure of the inner tie and the tie loop of the necktie according to this invention,



Fig. 2 is a perspective view showing the backside of the specially designed zipper slider,

Fig. 3 is a rear elevation view of the zipper slider used with the necktie according to the present invention,

Fig. 4 is a right elevation view of the zipper slider,

Fig. 5 is a cross section view of the zipper slider taken along line AA' of Fig. 3,

Fig. 6 shows the inner tie of the present invention being threaded into the support body,

Fig. 7 is a plan view of the outer tie of the present invention, and

Fig. 8 shows the necktie as completed by having the outer tie securely connected to the support body to be tied into a knot in the direction as shown by the arrow in phantom line in Fig. 6.

#### Detailed Description of the Invention

Referring to the drawings, Fig. 1 shows the structure of the inner tie (1) and the tie loop (2), the upper portion of the inner tie (1) being connected into the shape of a ring to become the tie loop and the lower half of the tie loop (2) being provided with a zipper (3) such that the size of the tie loop (2) can be adjusted by pulling a zipper slider (4).

Fig. 2 is a perspective view showing the backside of the specially designed zipper slider (4) of which the structure is characterized in that two small protruded tabs (44a, 44b) are provided on the backside thereof with a pressing spring plate (43) fitted therebetween to replace the stopper pin used with conventional zippers; the lower end of said spring plate is bent inwardly with the tip thereof being adapted to press against the zipper teeth, allowing to increase the dragging force during sliding the zipper; and in that the dragging force is sufficient to prevent the zipper from over sliding without interfering with the up or down adjustment of the knot made by hands.

Fig. 3 is a rear elevation view of the zipper slider (4).

Fig. 4 is a right elevation view of the zipper slider which is configured in exact lateral symmetry.

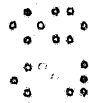
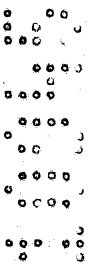
Fig. 5 is a cross section view of the zipper slider taken along line AA' of Fig. 3. It can be seen that the inwardly bent tip of the lower end of the pressing spring plate (43) is pointed back so that only refraining action is imposed on the zipper teeth (6) to merely result in a dragging force against the sliding of the zipper. With the plate thus configured, it will never hook at the zipper to influence the normal sliding movement or cause damage to the zipper teeth.

Fig. 6 shows that the inner tie (1) is threaded into the support body (5) which has a hollow interior for receiving the inner tie (1) to slide up and down therein. The support body (5) which is approximately in the shape as shown in Fig. 6 enables the outer tie (8) to be wrapped therearound into a tie knot (9) of a shape like what it ought to be (see Fig. 8). In assembling, the inner tie (1) is firstly threaded into the support body (5), then the rivet hole (421) on the pull tab (42) of the slider (4), and the rivet hole (51) on the support body (5) (51 coincides with 421), and the rivet hole (81) on the upper end of the outer tie (8) are fixed together by means of a rivet at a suitable position as shown in Fig. 6.

Fig. 7 is a plan view of the outer tie (8) which is made of fabrics suitable for neckties and has a rivet hole (81) thereon.

Fig. 8 shows the necktie as completed by having the outer tie (8) securely connected to the support body (5) to be tied into a knot (9) in the direction as shown by the arrow in phantom line in Fig. 6. The necktie knot (9) is preset into shape and fixedly set by having been sewn with threads before being shipped from the factory so that it is not necessary to tie a knot, thereby avoiding the inconvenience of tying the knot every time when wearing the necktie.

From the foregoing, the structure and function of the necktie of the present invention should be thoroughly understood. The necktie of the present invention is very convenient to use and handle. In use, one needs only to stretch the tie loop (2) to have it enlarged and to put the enlarged tie loop on around the neck from above. Then the inner tie (1) is pulled to a suitable tightness with one hand while the tie knot (9) is being grasped with the other hand. After the inner tie is pulled to proper position the tie knot can thus be held in the fixed position for a long time because of the pressure provided by the spring plate of the zipper. Even for an active person, there is no danger of having the necktie become loose after a whole day's activities. When taking it off; one needs only to have the tie knot (9) hooked with a finger and to pull it down. Then the necktie can be removed from the head, thus making the necktie of the present invention very convenient to use.





The claims defining the invention are as follows:

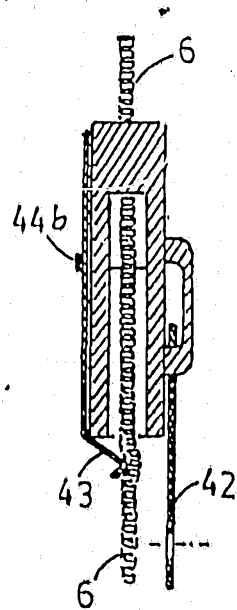
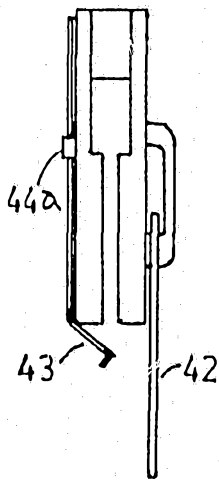
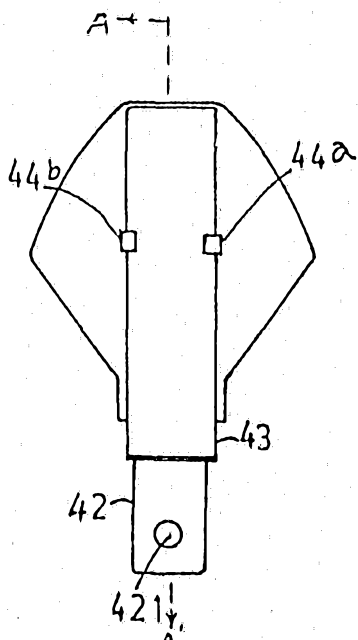
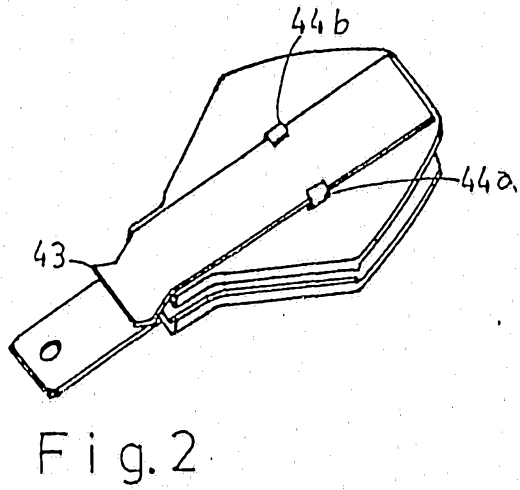
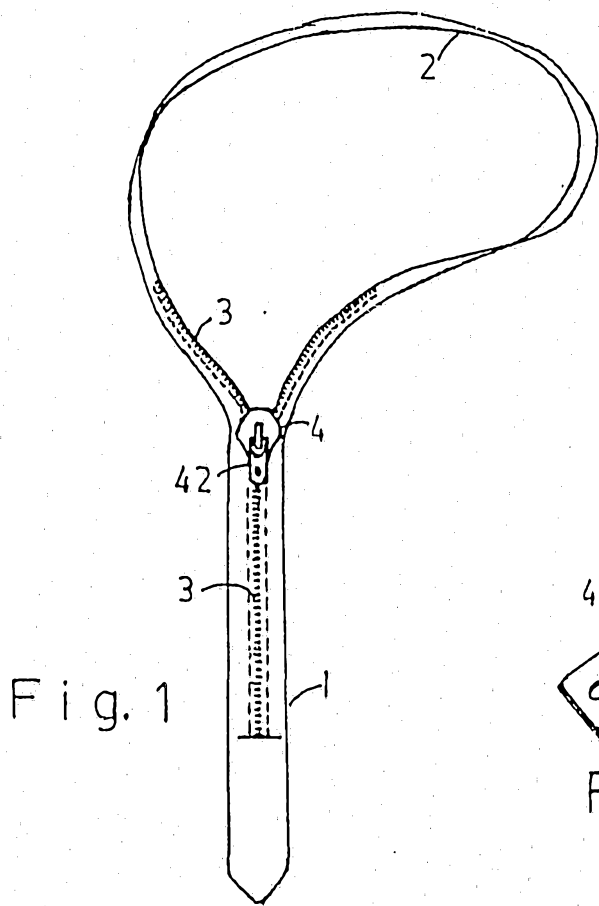
1. A preknotted adjustable necktie comprising an inner tie member and an outer tie member, the inner tie member having a loop portion which in use encircles a wearer's neck and a depending portion which extends down from said loop portion, the junction between said loop and depending portions including a zipper ~~fastener~~<sup>slider</sup> with the pull tab of the zipper slider being secured to a knot-forming support body for said outer tie member in a manner whereby said inner tie member is slidable through a hollow interior of said support body to enable adjustment of the size of the loop portion to fit the wearer's neck, wherein a spring pressure plate is disposed on the back side of the zipper slider and presses against the zipper teeth to prevent inadvertent loosening of the necktie.
2. The necktie as claimed in claim 1 wherein said spring pressure plate is held in place by tab means protruding from the back side of the zipper slider.
3. The necktie as claimed in claim 1 or 2 wherein the spring pressure plate is made from resilient metal and an end portion thereof which engages the zipper teeth is bent to a V shape so as to prevent any locking of or damage to said teeth.
4. A preknotted adjustable necktie substantially as described herein with reference to the attached drawings.
- ~~5. A zipper slider substantially as described herein with reference to the attached drawings.~~

Dated this 7th day of December, 1989

Jiann-Jong Chen and Ching-Hwa Chen  
By their Patent Attorney  
MICHAEL ANDERSON-TAYLOR



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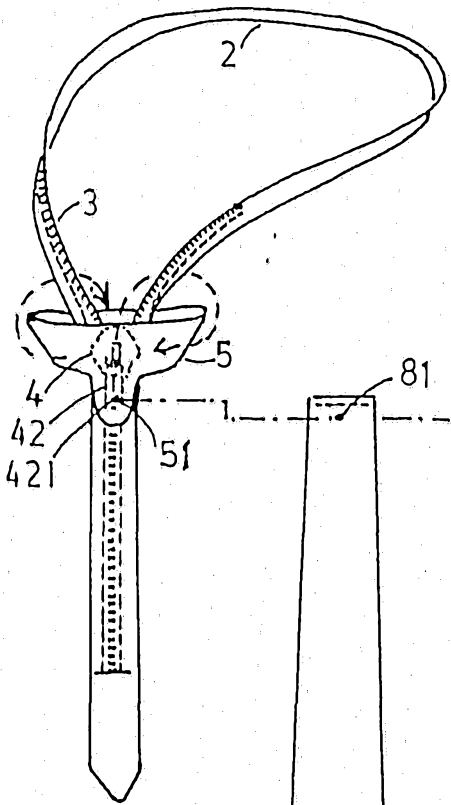


Fig. 6

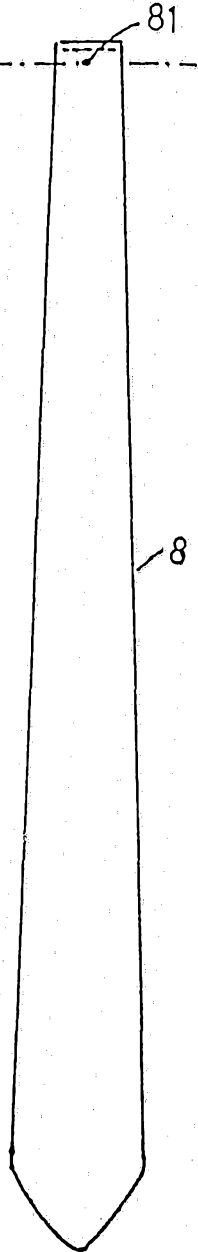


Fig. 7

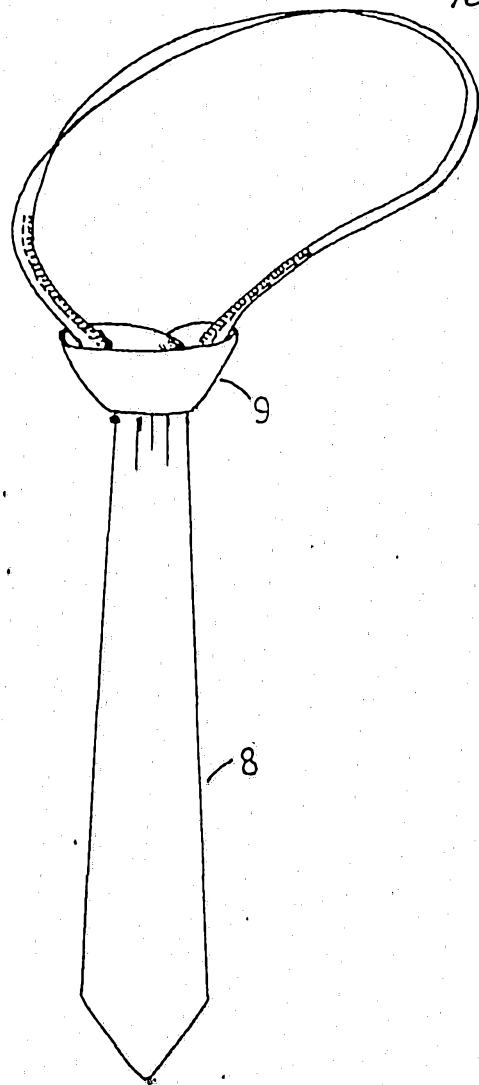


Fig. 8.