

M. ARITA.
COLLAR FASTENER.
APPLICATION FILED APR. 23, 1913.

1,097,504.

Patented May 19, 1914.

Fig. 1.

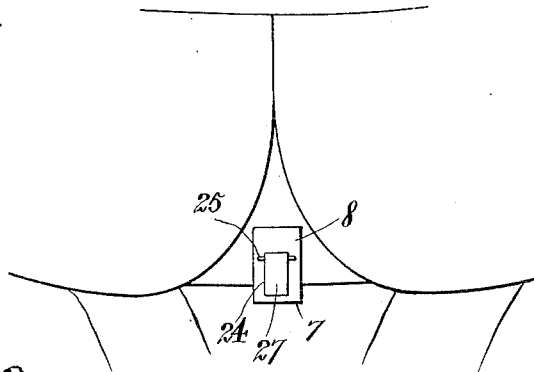


Fig. 2.

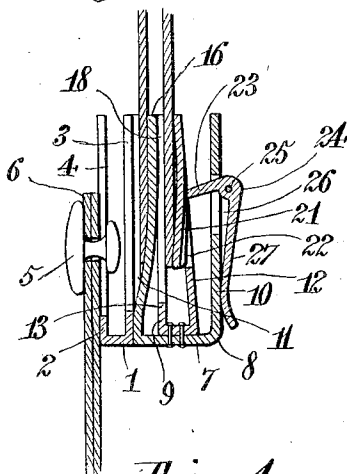


Fig. 3.

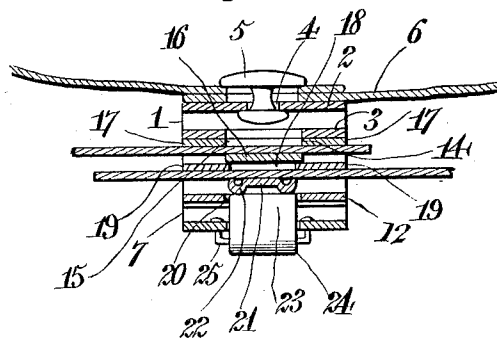


Fig. 4.

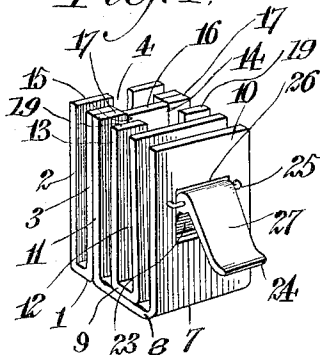
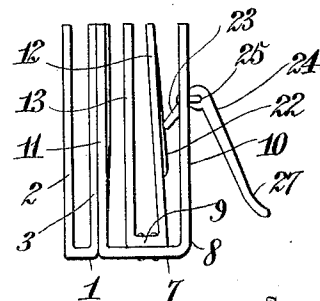


Fig. 5.



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UNITED STATES PATENT OFFICE.

MOTO ARITA, OF BOSTON, MASSACHUSETTS.

COLLAR-FASTENER.

1,097,504.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, Moto ARITA, a subject of the Emperor of Japan, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented new and useful Improvements in Collar-Fasteners, of which the following is a specification.

My invention relates to a collar fastener, the primary object thereof being to provide a device of this character which is adapted to be secured to the front collar button of a shirt neck band and which is provided with means for engaging the meeting ends of a collar to secure the same in adjusted position.

A further object of the invention is to provide a collar fastener of this nature which is simple in construction so as to be inexpensive in the cost of manufacture, and whose collar gripping jaws may be readily engaged with the meeting ends of the collar and will serve effectively to secure the same when properly adjusted.

The invention consists in the features of construction, combination and arrangement of parts, hereinafter fully described and claimed reference being had to the accompanying drawing, in which:

Figure 1 is a front elevation of the device in use; Fig. 2 is a vertical sectional view taken through the same; Fig. 3 is a horizontal sectional view therethrough; Fig. 4 is a detail perspective view of the fastener alone, showing the gripping jaws in inoperative position, and; Fig. 5 is a side elevation of the same.

In the drawing, the numeral 1 designates the body of the device which is constructed from a piece of sheet metal so as to provide superimposed, relatively spaced plates 2 and 3, the former plate being provided with a slot 4 for the reception of the shank of a collar button, such as the front collar button shown at 5 for securing the meeting edges of the collar neck band 6 together, the head of said collar button being adapted to be disposed within the space provided between the plates 2 and 3. A collar engaging portion 7 of the device is secured by soldering, riveting, or in any other suitable manner to the plate 3 of the body 1. The collar engaging portion of the device includes a pair of substantially U-shaped members 8 and 9, the relatively spaced, parallel portions or plates 10 and 11 of the former member being disposed farther apart than the

relatively spaced plates 12 and 13 of the latter. The plate 11 is provided with parallel slits 14 and 15 extending through the outer edge thereof and the portion intervening between the said slits is bent upwardly to form a movable jaw 16 which is adapted to coact with the fixed jaw provided by the remaining side portions 17 of the plate 11. The plate 13 is provided with a central cut away portion or slot 18 opening through its outer edge and which is narrower than the jaw 16, so that the latter will be engaged by the side portions 19 of the plate 13. The plate 12 is provided with a substantially U-shaped slit 20 having the extremity of its parallel portions terminating in spaced relation to the outer edge of the said plate, so that a movable jaw 21 is formed. This jaw is adapted to coact with the jaws formed by the portions 19 of the plate 13, and is provided with marginal outstruck ridges 22, which are inclined toward the base of the jaw and are adapted to be engaged by the inwardly projecting arm 23 of a clamping lever 24, which latter is pivotally mounted by means of a pivot rod 25 upon the outermost plate 10 with the said arm 23 movable through a slot 26 in the said plate. The outermost arm 27 of the lever 24 is adapted to be manually operated in bringing the arm 23 into clamping engagement with the jaw 21 and is angularly disposed with respect to the said arm 23 so that it will rest against the outer face of the plate 10 when in its operative engaging position.

From the foregoing, it should be apparent that the fastener includes an inner pair of jaws for engagement with one end portion of the collar, these jaws being formed by the side portions 17 of the plate 11 and the intervening portion 16 of the said plate, an outer pair of jaws constituted by the side portions 19 of the plate 13 and the plate 12, the adjacent jaws of both pairs being adapted for engagement with each other when in use, and means by which the outermost jaw of the outer pair may be forced inwardly to operate all of the movable jaws.

When the device is constructed of metal, as just described, it is tempered so that the movable jaws will be resilient, and it may be nickel plated or gold plated as desired so as to present a neat and attractive appearance.

When the fastener is attached to the front collar button of the neck band of a shirt as

previously described, the free extremities of the respective plates of its collar gripping portion 7 being disposed uppermost, the meeting ends of the collar may be secured 5 in their proper relatively adjusted positions by first inserting the end portion of the collar which is to be innermost between the movable jaw 16 and the fixed jaw 17, and then, by inserting the outer end portion of 10 the collar between the jaws 19 and 21, whereupon the manipulating arm 27 of the clamping lever 24 is thrown inwardly into its operative position with its inner arm 23 in engagement with the side portions of the 15 plate 12 and the movable jaw 21. This action of the lever 24 will cause the plate 12 to be inclined inwardly and the jaw 21 to be inclined outwardly due to the provision of the ridge 22, whereby the outer portion of the collar will be evenly engaged by the said 20 jaw and the side portions of the plate, thus preventing wrinkling of the same. The inward movement of this jaw 21 and the side portions of the plate 12 should be sufficient to transmit inward movement to the 25 movable jaw 16, so that the innermost portion of the collar will be clamped between the latter jaw and the fixed jaw 17. In the event that it should be found desirable to 30 loosen the collar or tighten the same, it is merely necessary to release the clamping lever 24 and to adjust the end portions of the collar to the desired extent within the respective gripping jaws of the device, where- 35 upon the clamping lever may then be moved into its operative position.

From the foregoing description, taken in connection with the accompanying drawings it should be apparent that I have provided a simply constructed and neat collar 40 fastener, by the use of which a collar may be adjusted from time to time so as to be most comfortable to the wearer and which may be engaged with the collar conveniently 45 and quickly without the trouble incident with the use of the ordinary collar button as the sole means for attaching the end portions of the collar to the shirt neck band.

This device may be constructed small in 50 size so as to be covered by the neck tie and thus rendered inconspicuous as is the case in the use of a collar button alone. I desire to have it understood, however, that minor changes in the details of construction may

be resorted to in practice without departing 55 from the scope of the invention.

Having thus described my invention what I claim is:

1. A collar fastener comprising a body portion adapted to be secured detachably 60 to the neck band of a shirt, a collar-gripping portion connected with the said body portion and including pairs of relatively movable gripping jaws, the adjacent jaws of said pairs being adapted for engagement 65 with each other, and means engageable with the outermost jaw for forcing the latter inwardly.

2. A collar fastener comprising a body portion adapted to be secured detachably to 70 the neck band of a shirt, a collar-gripping portion connected with the said body and including a plate of resilient material having parallel slits therein forming relatively movable jaws adapted to have one end of 75 the collar wedged therebetween, a second pair of movable jaws for engagement with the opposite end of the collar, the innermost jaw of the last-named pair being engageable with one of the first-named jaws, 80 and means carried by the body for forcing the outermost jaw of the second pair inwardly.

3. A collar fastener comprising a body portion adapted to be secured detachably to 85 the neck band of a collar, an inner pair of collar-gripping jaws connected with the body, an outer pair of jaws connected thereto, the outermost jaw of the outer pair being in the form of a resilient plate having a U- 90 shaped slit therein forming a yieldable tongue having its free end disposed innermost, outstruck marginal ridges formed on the said tongue, the said ridges being inclined toward the base portion of the tongue, 95 a plate connected with the body and being disposed outwardly of the outer jaw of the outer pair, and a clamping member pivotally mounted upon the said plate and having an angular extension engageable with the outer 100 faces of the ridges of the tongue carried by the last-named jaw.

In testimony whereof I affix my signature in presence of two witnesses.

MOTO ARITA.

Witnesses:

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