Dec. 22, 1931. C. M. MEAD 1,837,567

ATTACHED SHIRT COLLAR SUPPORT

Filed Aug. 19, 1930

Fig. 1

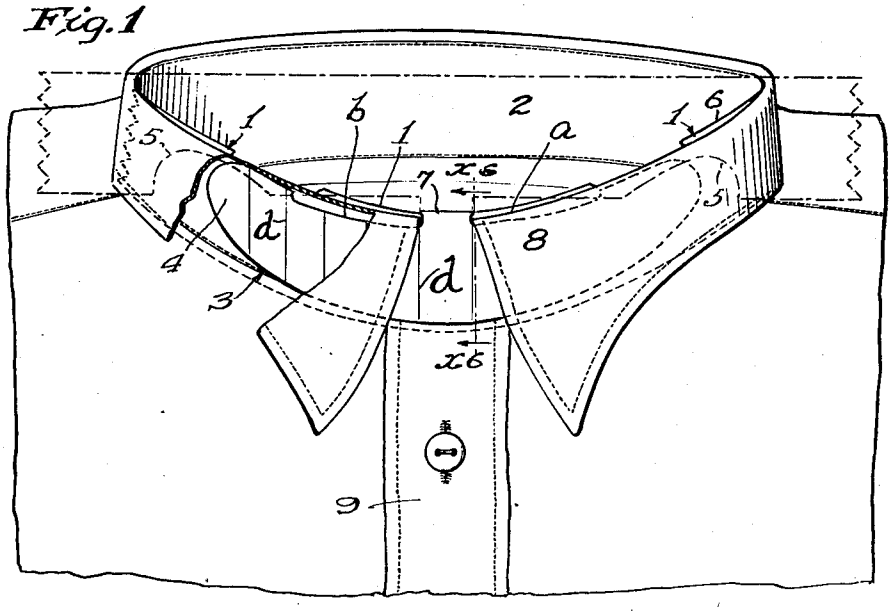


Fig. 2

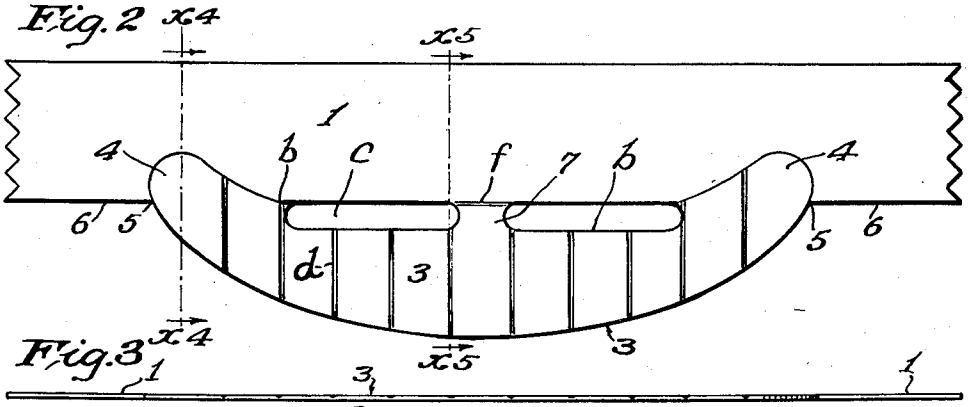


Fig. 3

Fig. 4

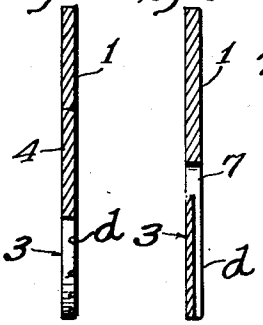


Fig. 5

Fig. 7

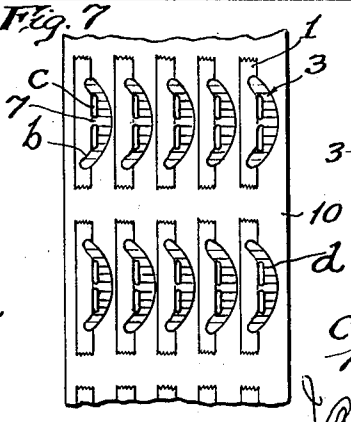
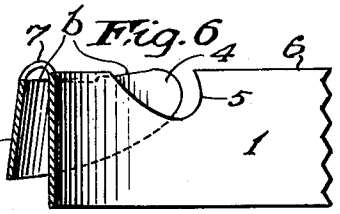


Fig. 6



Witness
C. H. Whitmore

Inventor
Charles M. Mead
by
James R. Townsend
his atty.

Patented Dec. 22, 1931 1,837,567

UNITED STATES PATENT OFFICE

CHARLES M. MEAD, OF LOS ANGELES, CALIFORNIA

ATTACHED SHIRT COLLAR SUPPORT

Application filed August 19, 1930. Serial No. 476,259.

This invention relates to that class of devices set forth in my application for Letters Patent of the United States, for collar support for laundered shirts, filed in the United States Patent Office May 23, 1930, Serial No. 454,925, and in which I have shown a collar support adapted for supporting collars of ironed laundered shirts and consisting of two resilient straps and a bridge connecting such straps; the straps being adapted to be bent onto the opposite sides of the collar band, and the bridge adapted to extend across the meeting ends of the collar band to hold the straps in place when one of the straps is in position to support the attached collar of the shirt.

An object of this invention is to so construct the device that it may be more easily put in place and will afford a support to which the fold of the collar will more smoothly conform.

Another object is compactness and stability of the appliance in its flat form.

I have discovered that by forming the flat device of a longer and a shorter strap notched together, the ends of the shorter strap being let into the edge of the longer strap, the flat device is firmer and less likely to injury in handling and that when the shorter collar supporting strap is inserted into the fold and the two straps are bent to conform to the curvature of the neck collar band and collar flap, the fold-supporting edge of the collar fold supporting strap will support the bend of such fold more evenly than with the form shown in my said other application.

A feature of the present invention comprises the provision of a head having a notched concave edge, the notches being elongated and arcuately terminated so that the necks are easily bendable and the waste bits are readily displaced from the stamping.

Another object is to provide an arrangement which, in the flat form will be of a neater and more attractive character than the former device.

An advantage of the new construction is that the stampings are more compact and the straps, during the flat form of the device, virtually support each other and the likelihood of the bridge being twisted out of shape is reduced.

An object is to provide a device of this character that is adapted for ready stamping or cutting from a sheet of roll pasteboard and in which the waste material will pass on without likelihood of clogging the stamping or cutting mechanism.

Another object is to insure the easy and quick separation of the stampings and waste bits from each other and from the waste strip.

An advantage is that the supports require no manipulation for the purpose of producing the supports ready for use.

Other objects, advantages and features of invention may appear from the accompanying drawings, the subjoined detailed description and the appended claims.

The accompanying drawings illustrate the invention.

Figure 1 is a perspective view showing a device embodying the invention and applied to use in a soft laundered shirt, a portion of which is shown, and parts of which are broken to expose parts of the collar fold support that would otherwise be hidden; the collar band strap being shown in dot-and-dash lines after placing of the collar support and before final placement of said strap inside the collar band.

Fig. 2 is a face view of the blank device ready for laundry use.

Fig. 3 is a lower edge view of the stamping shown in Fig. 2.

Fig. 4 is a cross-section on line $x4$, Fig. 2.

Fig. 5 is a section on line $x5$, Fig. 2.

Fig. 6 is a perspective view of the device in position for supporting a collar on a shirt, and shown in section on line $x6$, Fig. 1, looking left and omitting the shirt and collar.

Fig. 7 is a fragmental view of a strip of stamped cardboard including the stampings and most of the waste as the same appear before the stampings are displaced after they were severed by the die, not shown.

Arrows on the lines of section indicate the direction of sight.

The main collar band strap 1 is adapted as in the former construction, to fit inside

the collar band 2; its length being equal to about one-half the inside circumference of such band. The supporting head 3 is arcuate and has rounded terminals 4 that are cut from the strap 1 and are normally engaged in notches 5 in the adjacent edge 6 of the strap to the middle of which the middle of the arched head 3 is fixed by a link 7 adapted to be bent to form a bridge on the inside bend of the head, so that the appliance, when flat, as shown in Figs. 2, 3, 4, 5, consists of a compact unitary piece comprising the central link 7 and interlocking parts 4, 5; and which link, when in collar supporting use, is bent as in Figs. 1 and 6.

The link 7 is adapted to be bent into U form thus to invert the collar band strap relative to the head 3 and fold *a* of the collar, so that when the strap 1 and the head 3 are bent or bowed to one side, to conform to the collar, the recessed concave edge *b* of the head, and the notched edge 6 of the strap will be uppermost and adapted to curve around the front of the shirt collar 8, with the head 3 in the collar fold *a*, and the strap 6, inside the band; and when so curved, the upper edges of the strap and head will be brought practically into a common plane, respectively inside, and to the rear, of the collar fold as indicated in Figs. 1 and 6, thus holding the neck band 2, and the collar turn or fold *a* in smooth form and upright position.

When the link 7 has been bent and the collar fold support head 3 is seated inside the collar fold, its upper edge *b* will be upwardly or rearwardly bowed so that when the parts are bent to conform to the collar band, the upwardly or rearwardly bent terminals of the fold supporting head will independently support the collar fold on opposite sides of the buttoned lap 9 of the shirt.

In Fig. 7 there is shown a fragment 10 of a sheet of cardboard that has been drawn off of a cardboard roll, not shown, and has been stamped or cut by a die or cutter, not shown, in a machine, not shown, through which the sheet has been passed from a roll of cardboard. Such fragment is shown with the supports remaining in the waste sheet from which the supports and bits *c* of waste are pushed out as the waste moves on out of said machine.

In practice the supports in flat form will be assembled in bunches and packed in boxes for delivery, and delivered to the laundry where the placing of the supports in the shirts will be effected in a manner substantially hereinbefore indicated.

The head 3 is provided with transverse creases *d* corresponding to the creases shown in my said pending application, thus allowing the head to be bent with the certainty it will not crack as it is made to conform to the outer side of the collar band inside the collar fold, with the adjacent edges of strap and head substantially in a common plane.

Such creasing is not found necessary for the collar band strap 1 which is not constricted to a confined arc and is not likely to be broken by such bending as is found desirable for its placement inside the collar band, with the adjacent edges of band and head at approximately the same level.

I have found that by cutting the recesses *b* in the concave edge of the head and rounding them at their ends, the waste bits *c* will drop out as the support stampings are removed from the pasteboard strap, thus facilitating the completion of the support ready for packaging and use.

I have also provided the neck with a scoring *f* alined with the edge of the strap 1, so that the proper bending of the neck is facilitated.

I claim:—

1. The shirt collar support blank comprising a collar band strap having notches in one edge; a collar fold supporting head having its ends seated in said notches; and a bridge connecting the head and strap, and bendable to remove the head from the notches and to bring the upper edges of the strap and head into a common plane.

2. The shirt collar support blank comprising a collar band strap having notches in one edge; a collar fold supporting head having its ends seated in said notches; and a bridge connecting the head and strap, and bendable to remove the head from the notches and to bring the upper edges of the strap and head into a common plane; said head being arcuate and the notches and head ends seated therein being rounded so that when flat the head and band are united to form a compact unitary piece, and when the upper edges are brought to approximately the same level the head edge will be adapted to smoothly fit the fold of a turn-down collar inside the band of which the head is bent.

3. A shirt collar support comprising a collar band strap notched at one edge; a head having ends extending into notches in the collar band strap and a neck connecting the head to the strap; there being provided elongated recesses on opposite sides of the neck, the ends of said recesses being arcuate.

4. A shirt collar support comprising a collar band strap notched at one edge; a head having its ends extended into the notches of the strap and a neck connecting the head to the strap; there being recesses in the head on opposite sides of the neck.

5. A shirt collar support comprising a collar band strap notched at one edge; a head having its ends extended into the notches of the strap and a neck connecting the head to the strap; there being elongated recesses in the head on opposite sides of the neck; the ends of said recesses being arcuate.

6. A shirt collar support comprising a strap; an arcuate head and a neck connecting the head to the strap; there being recesses in the head on opposite sides of the neck and there being a score across the neck in alinement with the edge of the strap.

In testimony whereof, I have hereunto set my hand at Los Angeles, California, this 2nd day of August, 1930.

CHARLES M. MEAD.