Feb. 6, 1940. C. E. ANDERSON 2,189,574

BUCKLE

Filed March 29, 1939

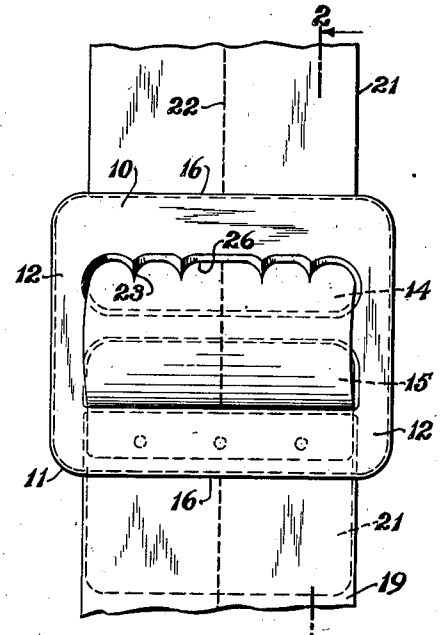



FIG. 1

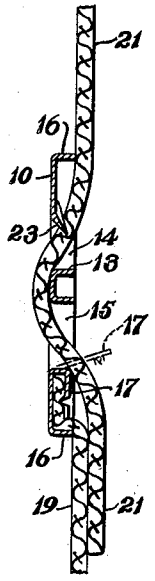



FIG. 2

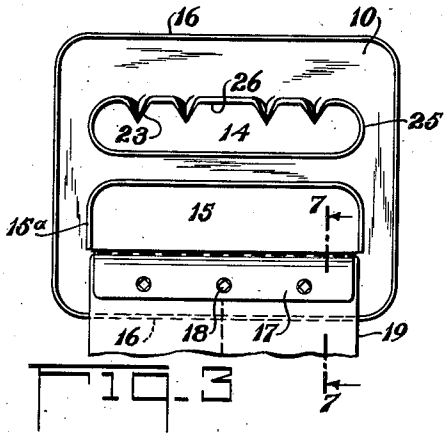



FIG. 3

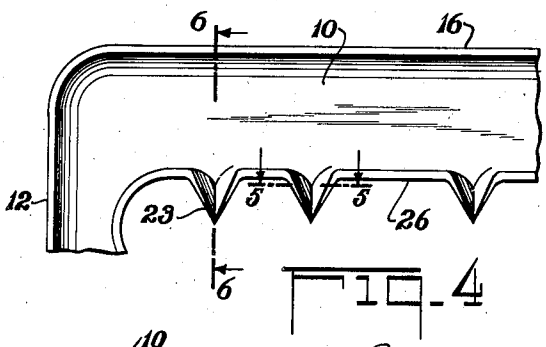



FIG. 4

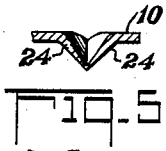



FIG. 5

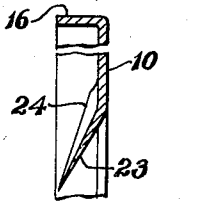



FIG. 6

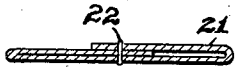



FIG. 8

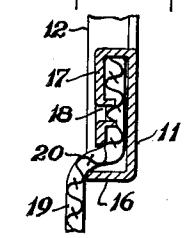



FIG. 7

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Patented Feb. 6, 1940 2,189,574

# UNITED STATES PATENT OFFICE

2,189,574

## BUCKLE

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Application March 29, 1939, Serial No. 264,710

1 Claim. (Cl. 24—198)

This invention relates to an improved buckle for adjusting the length of straps and is particularly adapted for adjusting the straps, usually of denim, on overalls. The adjustment is quickly and easily made by this new buckle which is especially adapted for use on the side straps for adjusting the waist part of the overalls.

The invention is designed to provide a simple buckle that is without moving parts, that holds the goods firmly, and that will not be distorted under strain, although the buckle is made of sheet metal.

The characteristics of the structural features are designed to minimize the wear on the straps and grasp the straps in tight compact form to make the whole assembly as flat as possible.

The invention is illustrated in the accompanying drawing. Figure 1 is a front view of a buckle and the straps. Figure 2 is a section on line 2—2 in Figure 1. Figure 3 is a back view of the buckle without the straps. Figure 4 is an enlarged detail of the tooth structure. Figure 5 is a section on line 5—5 in Figure 4. Figure 6 is a section on line 6—6 in Figure 4. Figure 7 is a section on line 7—7 in Figure 3 with the strap in place. Figure 8 is a cross section of the form of strap usually used in the improved buckle.

The buckle is stamped from sheet metal and comprises a top part 10, a bottom part 11, which form bars, side parts 12, and a central horizontal bar 13, whereby two openings 14 and 15 are provided for threading a strap. The whole forms a frame which has a marginal flange 16 all around to give added strength against bending and also provides gripping edges where the strap engages the buckle on the back.

The opening 15 is formed by bending out a flap 17 which is provided with holes punched through to form burrs 18 which are somewhat rough due to being punched all the way through and provide excellent holding means for one strap 19. The strap 19 is placed under the flap 18 and the flap is stamped down onto the strap 19 and the burrs 18 penetrate or partly penetrate the strap 19. The flap 17 is narrower than the distance from the edge of the opening 15 and the flange 16 causing a gripping action where the strap is bent at 20. This form of fastening is for the permanent or fixed connection with the strap. The edge of the opening 15 is flanged as at 15a.

The adjustable strap 21 is preferably made by folding over the material to overlap at the back, the whole being stitched down the center as at 22 which not only forms a stiff sturdy strap but the stitching, usually with colored thread, provides a better looking finish. The strap 21 passes from the back to the front through opening 14 and back to the rear through opening 15. The upper edge of the opening, that is the bottom edge of the top part 10 is stamped to form teeth 23 which teeth are bent toward the rear but also given a triangular shape in cross-section, that is, the teeth are inclined as a whole but also provided with a bracing structure by having inclined side walls 24 merging into the flange 25 which is around the edge of the opening 14. This form of teeth is found to resist bending under such strains as occur in clothing. The teeth 23 are spaced apart from the centre leaving the central part 26 smooth. This prevents any tearing or cutting of central thread 22 of the strap which cutting would cause the thread to unravel.

The flanges 15a and 25 form bracing means for the central bar 13 and this holds the strap 21 in position in close gripping contact with the teeth 23 and the flange 16.

I claim:

A buckle of sheet metal comprising a frame having a central bar, thus forming two openings, the margin of the bar and the margin of the openings having rearwardly extending flanges, the material of the lower opening forming a flap bent down on the frame and provided with burrs formed by perforations in the flap, the top edge of the upper opening having rearwardly projecting pointed teeth spaced from the centre of the buckle, the teeth having a triangular form both in the longitudinal and lateral direction, the triangular walls of the teeth merging into the marginal flange of the opening.

CARL E. ANDERSON.