

(No Model.)

O. VAN OOSTRUM.
GARMENT FASTENER.

No. 573,059.

Patented Dec. 15, 1896.

Fig. 1.

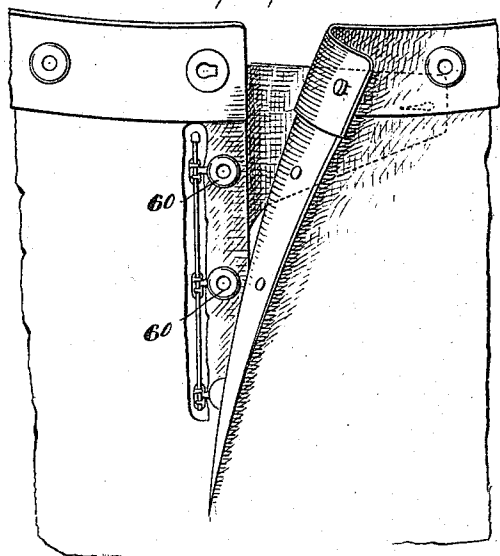


Fig. 2.

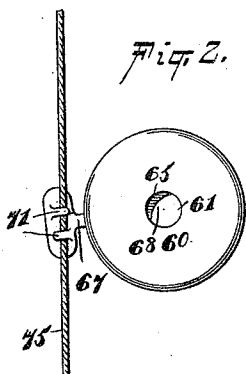


Fig. 3.

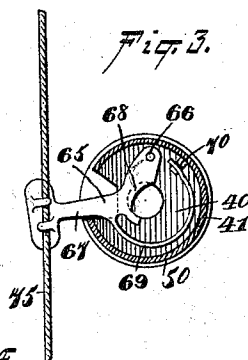


Fig. 4.

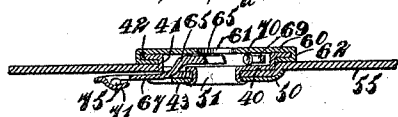


Fig. 5.

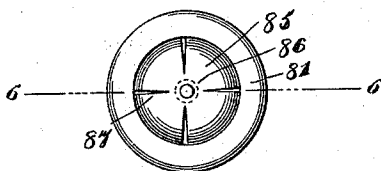
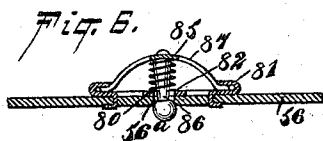


Fig. 6.



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GARMENT-FASTENER.

SPECIFICATION forming part of Letters Patent No. 573,059, dated December 15, 1896.

Application filed April 9, 1896. Serial No. 586,834. (No model.)

To all whom it may concern:

Be it known that I, OTTE VAN OOSTRUM, of Portland, in the county of Multnomah and State of Oregon, have invented certain new and useful Improvements in Garment-Fasteners, of which the following is a full, clear, and exact description.

The present invention relates more particularly to that class of fastening devices in which a series of fasteners are designed to be secured to an article of wearing-apparel, such as trousers, corsets, gloves, shoes, &c., and arranged to be released simultaneously by means of an operating cord or chain connected to certain parts of all the fasteners.

The object of the present invention is to improve fasteners of this description in various particulars, to the ends that the construction may be improved and the efficiency of the fasteners materially increased.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures:

Figure 1 represents in perspective a portion of a pair of trousers having fastening devices embodying my improvements. Fig. 2 is a front view of one member of the fastener of the form shown applied in Fig. 1. Fig. 3 is a similar view with parts removed and others in section. Fig. 4 is a vertical section taken through the member shown in Fig. 2. Fig. 5 is a plan view of the other member of the fastening. Fig. 6 is a section taken on the line 5 5 in Fig. 5.

In Fig. 1 a series of fasteners is shown, comprising each a stud and a member adapted to engage the stud, the latter members carrying clutch-pieces, the several clutch-pieces being connected by a common operating-cord for simultaneously releasing the studs of all the fasteners.

The member provided with the clutch is shown in detail in Figs. 2, 3, and 4, and it comprises a back plate 50, having a central orifice, a cap-plate 60, having a central orifice 61, an intermediate plate 40, and a clutch-piece or latch 65.

The intermediate plate 40 has a bend 41 perpendicular to the plate, and the extreme edge is again offset or bent outward, forming the peripheral flange 42, and around this

flange the edge 62 of the cap-plate 60 is clamped. The intermediate plate 40 further is formed with a tubular neck 43, which projects rearwardly through the back plate 50 and is upset at its outer end to clamp the back plate in place, the neck further forming an opening 51. The fabric 55 is clamped between the peripheral edge of the back plate 60 and the opposite surface formed by the returned edge 62 of the cap-plate 60. Within the casing formed by the back plate 50 and cap-plate 60 the clutch-piece 65 is pivoted, as at 66, said clutch-piece having an arm 67 for attachment of the operating-cord 75. The clutch-piece has a semicircular recess 68, and it is formed also with an integral spring 69 or equivalent, which extends circularly from near the base of the arm 67, said spring being engaged by a stud 70. Normally the integral spring maintains that portion of the clutch-piece having the recess 68 in a position partly registering with the orifices 51 and 61. The operating-cord 75 is preferably clamped to the arm 67 by producing two tongues 71 on said arm, the tongues being disposed in opposite directions, whereby when the tongues are clamped down they will securely hold the cord.

The stud member of the fastener, Figs. 5 and 6, comprises a base-plate 80, having any desired means for securing it to the fabric 56, and a spring-plate 85, carrying the stud 86, the edge of the spring-plate being received by the turned-over edge 81 of plate 80. The plate 85 is slitted radially, as at 87, to give the necessary spring action for permitting a vertical play of the stud 86. The stud 86 extends through a central orifice 82 of the base-plate 80 and through an orifice 56^a in the fabric, and is adapted to be passed into the orifice 61 of the member shown in Figs. 2, 3, and 4 to cause the head of the stud to engage the clutch-piece 65, whereby said stud will be securely held. By pulling on cord 75 all the clutch-pieces are moved against the tension of their integral springs, whereupon the spring-plate 85 will withdraw the studs 86 from the orifices 51 and 61 of the clutch-piece. The spring-plate 85 normally maintains the head of the stud only slightly protruding from the fabric, or it may not protrude at all.

It will be seen from Fig. 4 that the latch-plate 65 is beveled, as at 65^a, on the side where the stud enters the center perforation of the clutch-piece, so that the stud more readily slides back the clutch-piece. After said stud has engaged the clutch-piece the head of the stud will be clamped by the latch and firmly held. The arm 67 of the clutch-piece is offset, so that the arm lies at the inner side of the fabric and substantially flat, while the clutch-piece and its spring lie practically at the front of the fabric between the front or cap plate and intermediate plate and just within the said front plate. By this arrangement there will be little or no projection of parts at the inside of the fabric or garment, thereby effecting a better set of the garment.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a garment-fastener, a socket member, comprising a front plate having an orifice for the entrance of a button-head, a washer having an orifice, an intermediate plate having an offset edge clamped by the front plate and raised approximately perpendicularly inward from said edge, the intermediate plate having also a tubular neck at the center extending through and clamping the washer at the orifice of the latter, the washer and the opposing edge of the front portion of the socket serving to clamp the latter to the garment, and a spring-acted clutch-piece between the front plate and the intermediate plate, said

clutch-piece being offset rearwardly, the offset outer end lying at the back of the socket, substantially as described. 35

2. In a garment-fastener, a socket member comprising a front plate having an orifice, a washer, an intermediate plate, and a clutch-piece between the front plate and the interior plate and having a projecting outer end, the said outer end being offset and lying at the back of the socket, substantially as described. 40 45

3. In a garment-fastener, a button member comprising a plate having an orifice, and a second spring-acted plate radially slitted and carrying a stud adapted to be projected through the orifice of the first-named plate, substantially as described. 50

4. In a garment-fastener, a socket member comprising a front plate having a central orifice, a second plate back of the front plate and spaced therefrom to form a chamber directly within the front plate, and a clutch-piece having its body in said chamber, and an operating-arm offset from the body, the offset arm extending rearwardly through the said second plate at a point at one side of the center and lying substantially flat at the back of the socket member, substantially as described. 55 60

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