No. 764,562. PATENTED JULY 12, 1904.

J. COMBS.

SAFETY FASTENING BUTTON.

APPLICATION FILED JUNE 17, 1903.

NO MODEL.

Fig. 1.

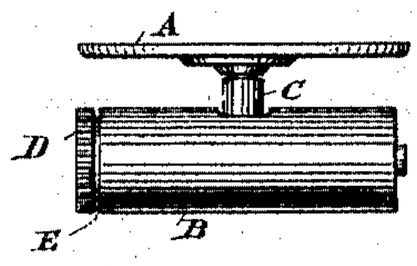


Fig. 2

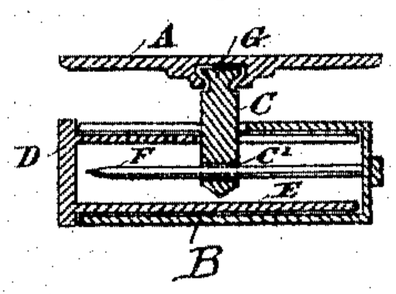


Fig. 3.

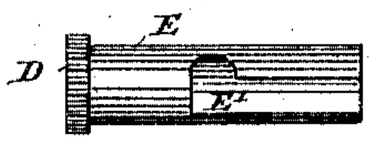
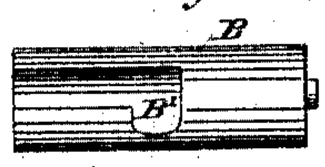


Fig. 4.



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No. 764,562. Patented July 12, 1904.

UNITED STATES PATENT OFFICE.

JAMES COMBS, OF LOUISVILLE, KENTUCKY, ASSIGNOR OF ONE-HALF TO G. W. HIRST, OF LOUISVILLE, KENTUCKY.

SAFETY-FASTENING BUTTON.

SPECIFICATION forming part of Letters Patent No. 764,562, dated July 12, 1904.

Application filed June 17, 1903. Serial No. 161,781. (No model.)

To all whom it may concern:

Be it known that I, JAMES COMBS, a citizen of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Safety-Fastening Buttons; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to safety-fastening buttons for garments; and the object of my invention is to provide a button which can be secured to garments without sewing and can be readily detached when required.

The invention consists, first, in a button of the kind stated comprising a head, crown, or face, having a projecting shank and a hollow securing means therefor, which receives the end of said shank and is provided upon its interior with means to engage and hold the same, said securing means comprising two relatively movable members engaged with each other; and the invention also consists in certain peculiarities in the construction of parts and in certain novel combinations of elements, substantially as hereinafter described, and particularly pointed out in the subjoined claims.

The construction of my button is shown in the accompanying drawings, in which—

Figure 1 is a perspective view of a safety-fastening button embodying my invention with the several parts thereof joined together. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a top detail view of the holding-sleeve, and Fig. 4 is a similar view of the fastening-barrel.

Similar letters refer to similar parts throughout the several drawings.

A represents the face or crown of the button.

C represents a shank-piercing pin attached to the under side of A, having a ball-joint G formed on its upper end, adapted to work in a recess in the under side of A, as shown in Fig. 2, and having its lower end sharpened to a point.

C′ represents a hole through the lower part of the piercing shaft-pin C, adapted to admit the passage of the fastening-pin F in the fastening-barrel B, as shown in Fig. 2.

The fastening-barrel B is a hollow cylinder closed at one end, and firmly attached to the closed end is a pin F, projecting through the barrel on the longitudinal axis thereof toward the open end. A longitudinal slot B′ is formed in the barrel B, extending from its open end to little more than half its length, and on the lower side of the slot at its inner end it is widened transversely, the transverse part having its lower edge concave.

E represents the holding-sleeve. It is a hollow cylinder closed at one end by a milled head D and having a longitudinal slot E′ extending from its open end to little more than half its length. On the upper side of the slot at its inner end it is widened transversely, the transverse part having its lower edge concave.

It will be observed that the two barrels or sleeves described, together with the fastening-pin therein, constitutes a very desirable form of securing means for the button crown or face adapted to secure the same to a garment without sewing and to permit the same to be readily applied to and removed from said garment; but it will be understood that while the detail construction hereinabove described is very advantageous and greatly preferred yet the invention is not to be construed as limited in all respects to said details.

The mode of attaching and securing my safety-fastening button is as follows: At the place on the garment where the button is to be located the shank-pin C on the bottom of the button is pushed through the cloth till the hole C′ is well cleared of the cloth. The fastening-barrel B, held perpendicularly to the shank-pin C with its open end toward the shank and the slot B′ in position to receive the shank-pin C, is pushed toward the pin, and as it moves in that direction the rigid pin F in the barrel B will engage and pass through the hole C′ in the shank-pin. The barrel B

is pushed toward the shank-pin till the end of the slot is reached. To hold the fastening-barrel securely in position, the open end of holding-sleeve E, which is of a diameter adapted to fit snugly within the barrel B, is inserted within the open end of B so that its slot E′ will register with the slot in B, when it is pushed in till the end of the slot reaches the shank-pin, when it is turned by the milled head D till the enlargement at the head of the slot engages the shank-pin, which is then surrounded by a circular space formed by the enlargements in the slots of the two cylinders, allowing it play. While in this position the holding-sleeve cannot be withdrawn and the button is held secure. To remove the button, the holding-sleeve is turned till the slots register, when the holding-sleeve can be pulled out. Then the fastening-barrel can be withdrawn and the button be easily pulled from the cloth.

Having thus explained my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. A safety-fastening button, consisting of a button crown or face, A, having attached centrally to its under surface a piercing shank-pin, C, having a hole, C′, through its lower part, a cylindrical fastening-barrel, B having a longitudinal slot enlarged at one side at its inner end, the end of said barrel opposite the slot closed and carrying inwardly a rigid fastening-pin, F, longitudinally arranged, and a holding-sleeve, E, having a longitudinal slot, E′, enlarged at its open end and the end opposite the slot closed, all constructed and arranged substantially as described and for the purposes specified.

2. A safety-fastening button, comprising a crown or face having a shank projecting therefrom, a hollow fastening-barrel adapted to receive the end of said shank and provided on its interior with means to engage and hold the same, said barrel also having a prolonged slot through which said shank extends to its interior, and a holding member mounted in said barrel and movable longitudinally and axially thereon and having a slot extending laterally at one end, said slot receiving said shank.

3. A safety-fastening button, comprising a crown or face having a shank projecting therefrom, a slotted fastening-barrel into the interior of which said shank extends, said barrel having means upon its interior to engage and hold said shank, and a second barrel, inclosing said fastening-barrel and movable axially and longitudinally thereon, said second barrel having a slot extending laterally at one end.

4. A safety-fastening button, comprising a crown or face having a projecting piercing shank-pin, and securing means therefor, said securing means comprising two barrels mounted one upon the other and movable relatively both longitudinally and axially, said securing means being slotted longitudinally and laterally and provided upon its interior with means to engage and hold the end of the shank-pin therein.

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

JAMES COMBS.

Witnesses:
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W. H. ELKINGTON.