

June 24, 1947.

A. R. BRAY

2,423,002

PROTECTIVE SAFETY GARMENT

Filed Oct. 15, 1945

Fig. 1.

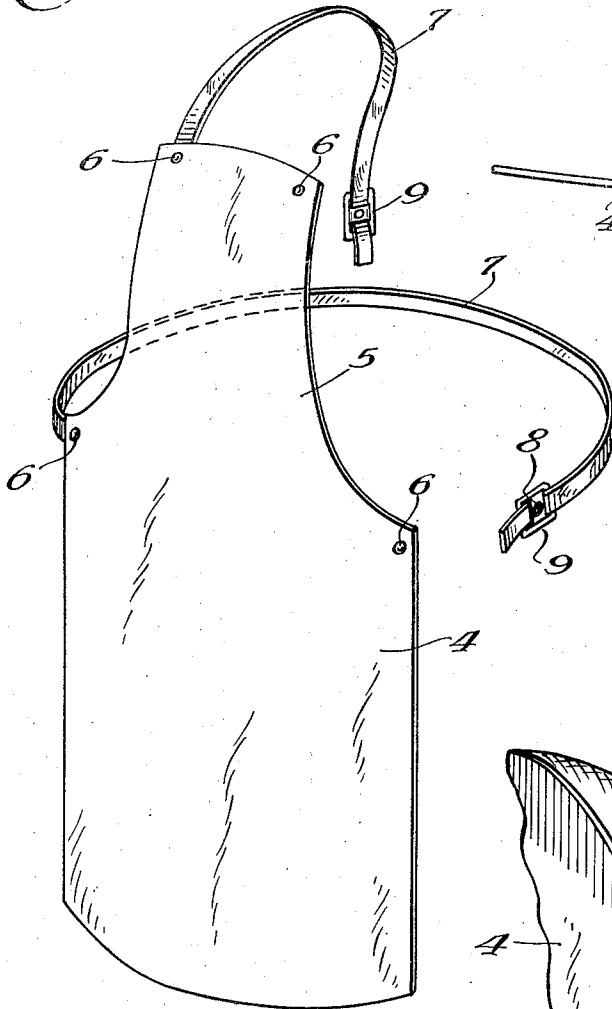


Fig. 2.

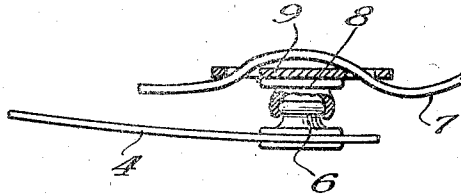
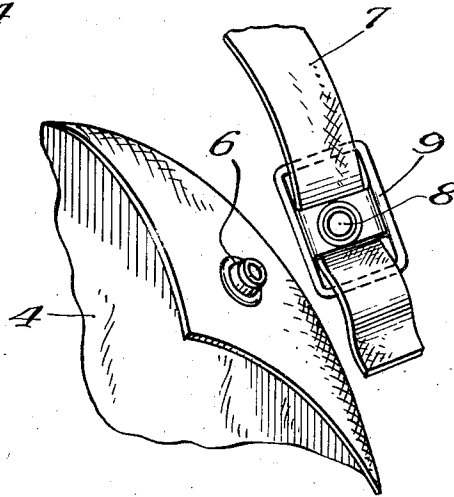


Fig. 3.



Inventor:
Allen R. Bray

By:
Chilton, Wilke, Schorder, Merriam & Hoffgren
Attorneys

UNITED STATES PATENT OFFICE

2,423,002

PROTECTIVE SAFETY GARMENT

Allen R. Bray, Chicago, Ill., assignor to Standard Safety Equipment Co., a corporation of Illinois

Application October 15, 1945, Serial No. 622,370

3 Claims. (Cl. 2—52)

1

This invention relates to safety garments and more particularly to a safety garment which may be pulled off in an emergency without injury to the wearer.

Aprons of various types have been worn from the earliest times. A forging apron is usually held in position on the body of the wearer by a belt or strap. Some aprons have bibs which are supported by a yoke-like strap around the neck of the wearer. Each year there are many serious and sometimes fatal accidents caused by such garments getting caught in the machinery or wrapped around the shafting of machinery.

The primary object of the present invention is to provide a simple fastening means for a protective garment that will become completely disengaged from the wearer when given a sharp pull or tug. I have discovered that, to accomplish this, it is essential that the snap-fasteners be placed on the back of the garment and not on the front, as has heretofore been done. Preferably, the stud portion of the snap-fastener extends inwardly towards the body of the wearer, and the socket portion on the strap is presented outwardly to receive the stud.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is an elevational view of an apron equipped with the improved securing straps; Fig. 2, an enlarged fragmentary sectional view showing how the stud on the apron engages the outwardly presented socket on the strap; and Fig. 3 is a fragmentary perspective view showing how the fastener may be pulled away from the strap.

In the embodiment illustrated, a fabric apron 4 having a bib 5 is preferably provided on its front or outer face with a coating to give it longer wear and prevent penetration by oils, gases, paint, or the like. The apron is shown provided with four snap buttons 6, which have rearwardly presented studs, such as shown in Figs. 2 and 3.

The straps 7 may be made of leather or fabric and are provided near their end portions with snap-fasteners 8, which cooperate with the fasteners 6 on the apron to make a releasable connection. Preferably, one of the fasteners is mounted on a slotted carrier member 9, so as to be adjustable on the strap 7.

It will be noted that by the arrangement shown a sudden outward tug on the apron 4 will cause the fastener to become disengaged. On the other hand, if the stud 6 were on the opposite side of the apron, it would not be released by a strong tug, and if the apron were caught in a machine

2

or were wrapped around a piece of shafting, it would pull the wearer along with it. In such a case, the wearer would have to use two hands to disengage the fastener. With the fasteners arranged as illustrated, in case the apron becomes splashed with molten metal or flaming material, the operator can pull off the apron with a single quick movement with one hand.

The foregoing detailed description is given for clearness of understanding only, and no unnecessary limitations should be understood therefrom, for some modifications will be obvious to those skilled in the art.

I claim:

1. A protective safety garment comprising, a flexible apron having a downwardly extended portion of substantial width adapted to substantially cover the abdominal front of the wearer and having an upwardly extended bib of lesser width than the downwardly extended portion, each of the upper outer corners of the abdominal portion of the garment having secured thereto an inwardly extended snap-fastener stud, a securing strap adapted to extend around the body of the wearer and having near each of its ends a snap-fastener socket member of which the open end of the socket faces outwardly to be snapped onto one of the aforesaid inwardly extended studs, the upper outer corners of the bib also each having an inwardly extended snap-fastener stud, and a securing strap adapted to extend around the rear of the neck of the wearer, said last mentioned strap having near each of its ends a snap-fastener socket member of which the open end of the socket faces outwardly to be snapped onto one of the inwardly extended bib studs, whereby in an emergency the garment may be quickly removed by a single quick outward pull on the front portion of the garment by the wearer, at least one of said socket members on each strap being longitudinally adjustable on the strap.

2. A protective safety garment comprising a flexible apron having secured to each of its two side edge portions an inwardly extended snap-fastener stud, a securing strap adapted to extend around the back and sides of the wearer's body and having near each end of the strap a snap-fastener socket member of which the open end of the socket faces outwardly to be snapped onto one of said inwardly extended studs, whereby in an emergency the garment may be quickly removed by a single quick outward pull on the garment by the wearer.

3. A protective safety garment comprising a flexible apron having secured to each of its two side edge portions an inwardly facing snap-fastener member, a securing strap adapted to extend from the garment edges around the back of the wearer's body and having near each end of the strap an outwardly facing snap-fastener member complementary to the adjacent snap-fastener on the apron and adapted to be snapped thereto to hold the apron on the wearer, whereby in an emergency the garment may be quickly removed by a single outward pull on the garment by the wearer.

ALLEN R. BRAY.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
2,250,887	Brown -----	July 29, 1941
849,268	Rutenbeck -----	Apr. 2, 1907

FOREIGN PATENTS

Number	Country	Date
565,449	France -----	Jan. 26, 1924