F. J. STOIBER.

GLOVE.

APPLICATION FILED SEPT. 3, 1912.

1,147,460.

Patented July 20, 1915.

4 SHEETS—SHEET 1.

Fig. 1.

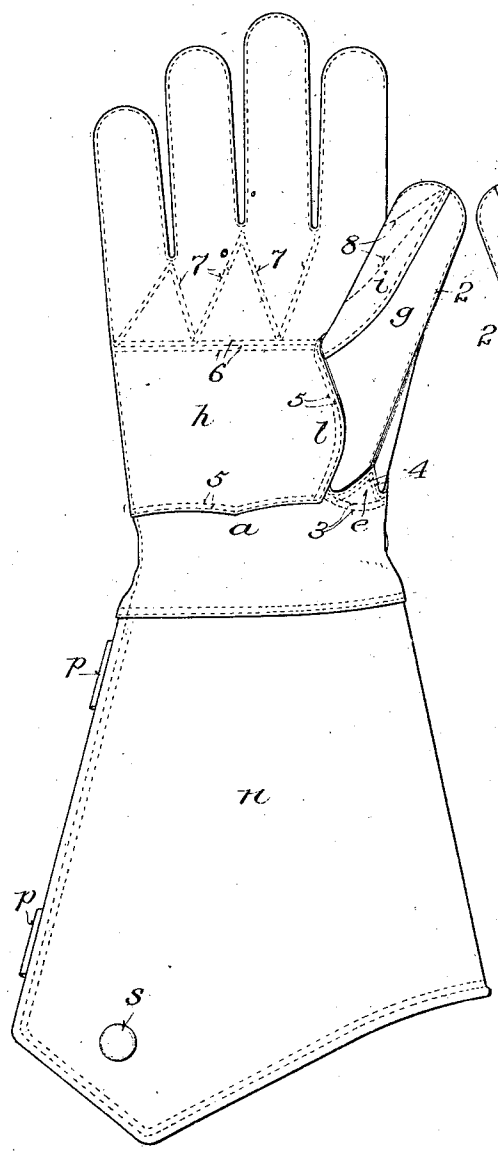
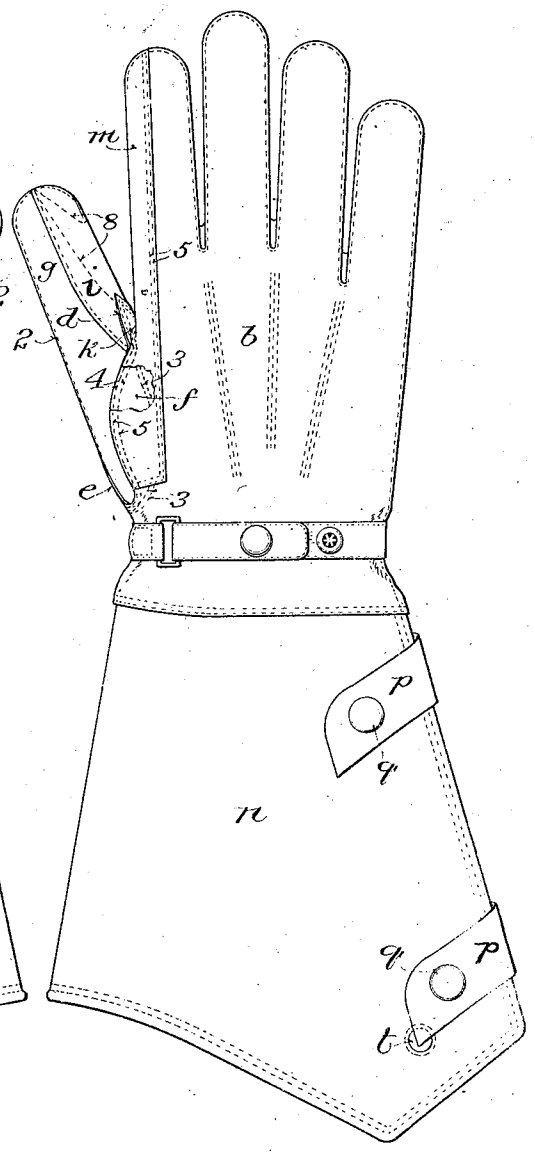


Fig. 2.



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4 SHEETS—SHEET 2.

Fig. 3.

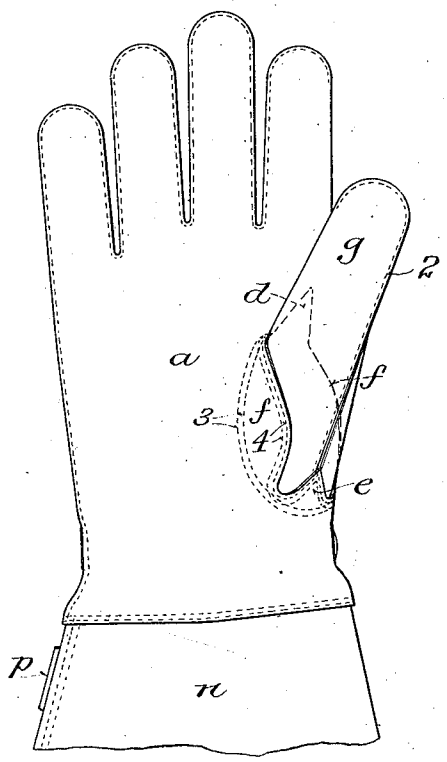


Fig. 4.

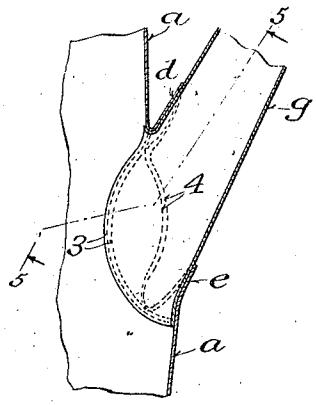


Fig. 5.

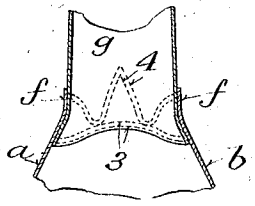


Fig. 6.

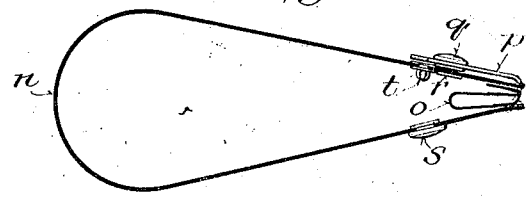
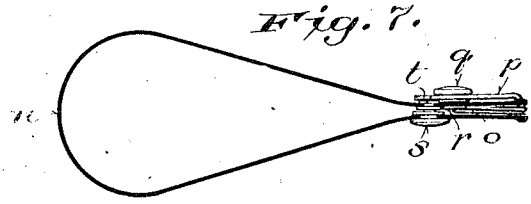


Fig. 7.



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4 SHEETS—SHEET 3.

Fig. 8.

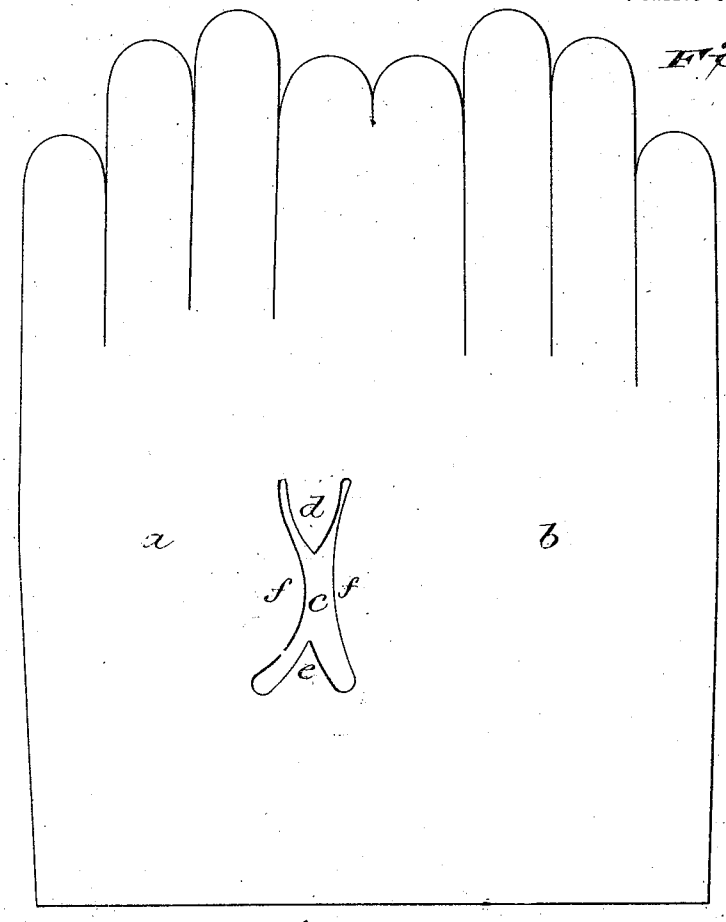


Fig. 9.

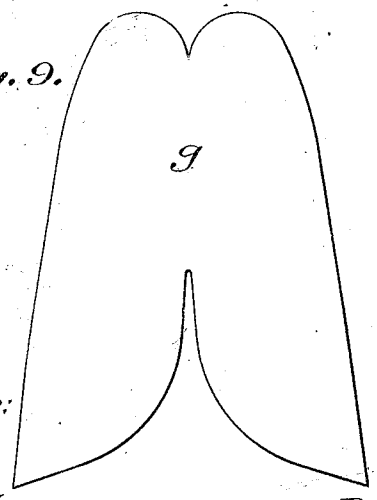
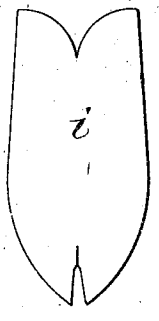


Fig. 10



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4 SHEETS—SHEET 4

Fig. 11.

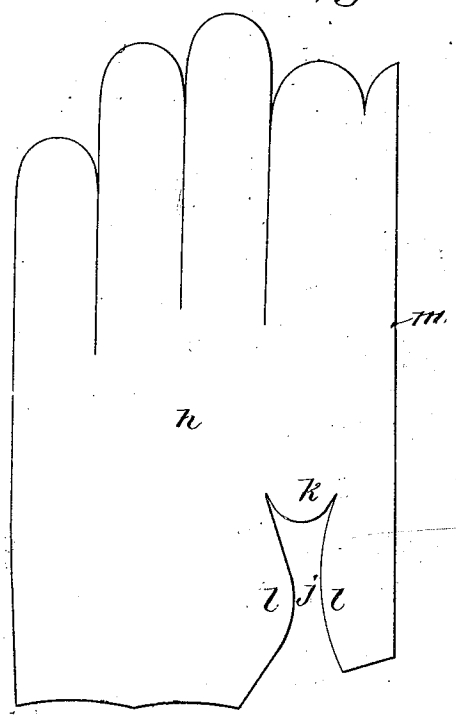


Fig. 12.

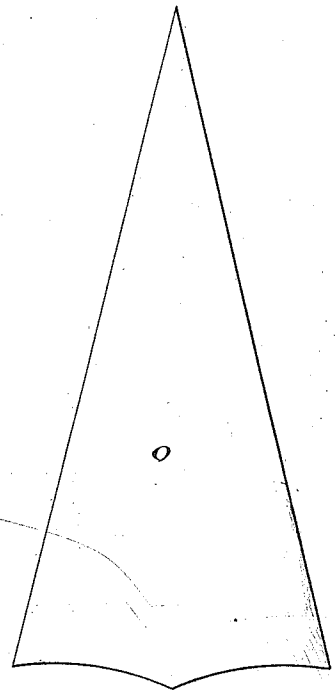
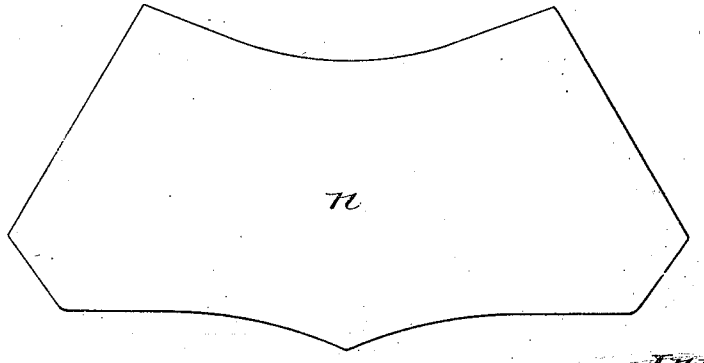


Fig. 13.



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UNITED STATES PATENT OFFICE.

FRANK J. STOIBER, OF GRAFTON, WISCONSIN.

GLOVE.

1,147,460. Specification of Letters Patent. Patented July 20, 1915.

Application filed September 3, 1912. Serial No. 718,381.

To all whom it may concern:

Be it known that I, FRANK J. STOIBER, a citizen of the United States, residing at Grafton, in the county of Ozankee and State of Wisconsin, have invented certain new and useful Improvements in Gloves, of which the following is a specification, reference being had to the accompanying drawing, forming a part thereof.

This invention relates more particularly to gauntlets or gloves for automobile driving or other hard usage.

The main objects are to economically produce a strong, durable, well-fitting glove, which can be easily put on and taken off the hand and may be made to fit snugly or loosely around the wrist or arm, and generally to improve the construction of gloves of this class.

It consists in the peculiar features of construction and in the arrangement and combination of parts as hereinafter particularly described and pointed out in the appended claims.

In the accompanying drawing like characters designate the same parts in the several figures.

Figure 1 is a view of the palm or inner side of a glove embodying the invention; Fig. 2 is a view of the back or outer side of the glove; Fig. 3 is a view of the palm or inner side of the glove without the palm and thumb reinforcements shown in Figs. 1 and 2; Fig. 4 is a longitudinal section of the thumb and a part of the hand of the glove as shown in Fig. 3; Fig. 5 is a section on the line 5—5, Fig. 4; Fig. 6 is a cross section of the cuff showing the fent closed by the outer fastenings; Fig. 7 is a similar section showing the opposite sides of the glove connected by the inner fastenings to make the cuff fit more closely around the arm; Fig. 8 is a diagram of the blank for the hand portion of the glove; Fig. 9 is a diagram of the thumb blank; Fig. 10 is a diagram of the thumb reinforcement; Fig. 11 is a diagram of the palm reinforcement; Fig. 12 is a diagram of the cuff gusset or gore; and Fig. 13 is a diagram on a reduced scale of the cuff blank.

Referring to Figs. 1, 2 and 3, the palm *a* and the back *b* of the glove are preferably made from a blank or single piece of material which is cut as shown in Fig. 8, and folded and stitched together with the usual fourchettes (not shown) to form the hand and fingers.

An X-shaped opening *c* is made in the palm portion *a* of the blank for the thumb, leaving four thumb reinforcing flaps integral with the blank on opposite sides of the opening, as shown in Fig. 8. The flaps *d* and *e* at the ends of the opening are pointed and comparatively narrow, while the flaps *f* at the sides of the opening are rounded and comparatively broad.

The thumb *g* is preferably made from a single blank or piece of material cut as shown in Fig. 9, folded in line with the notches or indentations in its ends, and stitched together along its opposite edges by a seam 2, as shown in Figs. 1, 2 and 3. It is inserted in the opening *c* and secured around its base to the hand or palm portion *a*, by one or more oval rows of stitches 3, as shown most clearly in Figs. 2 and 3. The several flaps *d*, *e* and *f*, which overlap the base of the thumb, are secured thereto along their margins by one or more sinuous rows of stitches 4, as shown in Figs. 3, 4 and 5. The seams 4 diverging in V-shape from the apexes of the flaps *d* and *e* toward the oval seams 3, permit the material of the glove between said seams to stretch more or less with the movements of the thumb without excessive strain on said seams. The longitudinal seam 2 is located along the back of the thumb, where it is subjected to the least wear and strain, and at its inner end where it joins the hand or palm portion *a*, it is overlapped, protected and strengthened by the flap *e*. The seamless face or side of the thumb where it joins the hand of palm portion *a* in the crotch and is subjected to the greatest strain, is overlapped and strengthened by the flap *d*, while the sides of the thumb adjacent to the base are reinforced and strengthened by the flaps *f*.

The peculiar shape of the thumb opening *c*, together with the oval and sinuous seams 3 and 4, produce not only a strong and durable, but also an elastic or flexible connection between the thumb and body as well as a nice fit, without extra material, permitting freedom of movement to the thumb and avoiding undue strain upon and breaking of the stitching owing to the oblique disposition of the seams 4 to the seams 2 and 3,

and to the direction of strain on the thumb in the opening and closing movements thereof.

In the construction of heavier grades of the glove for the hardest usage, such as automobile and motor cycle driving, it is preferably provided with palm and thumb reinforcements *h* and *i*, as shown in Figs. 1 and 2.

The palm reinforcement *h* is made from a single blank or piece of material, cut as shown in Fig. 11, to correspond with the palm portion *a* with which it is stitched along the margin to the back *b* and the fourchettes between the fingers. It is formed with a thumb opening *j* corresponding with the opening *c* in the palm portion or section *a*, and with integral flaps *k* and *l*, the flaps *l* corresponding in shape and size with the flaps *f* of the palm portion or section *a*. It is also formed on one side with a flap or extension *m*, which overlaps the outer side of the fore finger adjacent to the thumb, and is secured along its margin by one or more rows of stitches 5, as shown in Fig. 2. This row or rows of stitches 5, is continued around the margins of the flaps *l* and *k* and across the palm, securing said flaps, which overlie the flaps *d* and *f*, to the thumb, and the inner end of the palm reinforcement to the palm portion *a*, as shown in Figs. 1 and 2.

To avoid wear incident to the rubbing or chafing of the reinforcement *h* and the underlying palm portion *a* of the glove, the reinforcement is secured to the palm portion by one or more rows of stitches 6, extending from the crotch of the thumb transversely across the palm, and by one or more zig-zag rows of stitches 7, between the transverse row or rows and the crotches between the fingers, as shown in Fig. 1. The thumb reinforcement *i*, which is shaped as shown in Fig. 10, with notches or indentations in the ends, is stitched along its margin over the inner side or face of the thumb, as shown, and is overlapped at its base by both the flaps *d* and *k* of the palm portion *a* and of the palm reinforcement *h*, as shown in Figs. 1 and 2. To prevent the rubbing or chafing of the reinforcement *i* against the underlying portion of the thumb and consequent wear thereof, the reinforcement is secured along median lines to the thumb by rows of stitches 8.

As shown in Figs. 1, 2 and 3, a cuff *n* which is comparatively stiff is stitched to the wrist of the glove, with the fent or slit in the outer side in line with the little finger. The fent is closed and the cuff is made adjustable, by a flexible triangular infolding gusset or gore *o*, shaped as shown in Fig. 12, and stitched along its opposite edges to the edges of the cuff on opposite sides of the fent. The opposite edges of the fent are drawn together, and the gusset *o* is held folded, as shown in Fig. 6, by straps *p*, stitched or fastened at one end with the gusset, to the cuff on the inner or lower side of the fent and provided adjacent to their other ends with members *q* of ball and socket or snap fastenings, the other members *r* of which are attached to the cuff adjacent to the upper or outer side of the fent.

To contract the upper or open end of the cuff, as shown in Fig. 7, and to hold it more snugly or closely around the arm or sleeve of the wearer, it is provided at a distance from the fent sufficient to clear the infolded gusset *o*, with similar ball and socket or snap fastenings *s* and *t*. When both sets of fastenings are disengaged, the gusset *o* is permitted to unfold, allowing the cuff to expand to its fullest extent and thereby facilitating putting on and taking off the glove. For some purposes, and particularly in the lighter grades of the glove, the cuff as well as the palm and thumb reinforcements, may be omitted.

I claim:

1. A glove having an X-shaped thumb opening in the palm portion forming four reinforcing flaps, and a thumb set into said opening and secured around the base by an oval seam and inside of the oval seam by a sinuous seam around the margin of the thumb opening to the palm portion, two of said flaps being located on the face and back sides of the thumb and the sinuous seam along their margins being disposed obliquely to the oval seam and to the direction of strain on the thumb in opening and closing the same.

2. A glove comprising a palm portion having an X-shaped thumb opening forming on opposite sides thereof four thumb reinforcing flaps, and a thumb having a longitudinal seam along the back and stitched around the base by an oval seam and inside of the oval seam around the margin of the thumb opening by a sinuous seam to the palm portion, one of said flaps overlapping the inner end of the thumb seam and the sinuous seam along the margin of said flap diverging from its intersection with the thumb seam toward the oval seam.

3. A glove comprising a hand portion having an X-shaped opening forming four thumb reinforcing flaps, a one-piece thumb having a longitudinal seam along the back, a thumb reinforcement stitched at its edges to the sides of the thumb and covering the seamless face of the thumb which is inserted and stitched around its base in the opening of the hand portion, said flaps being stitched along their edges to the thumb on opposite sides thereof, one of these flaps overlapping the inner end of said reinforcement and the opposite flap overlapping the inner end of the back seam of the thumb.

4. A glove comprising a hand portion formed integrally by an X-shaped opening therein with four thumb reinforcing flaps, a thumb inserted and stitched around its base in said opening to the hand portion and having a longitudinal seam along the back, said flaps being stitched along their edges to opposite sides of the thumb, and a palm reinforcement having a thumb opening corresponding with that in the hand portion and three thumb reinforcing flaps and stitched along its edge to the hand portion and base of the thumb, the three flaps of said reinforcement overlapping the corresponding flaps of the hand portion and the fourth flap of the hand portion covering the inner end of the back seam of the thumb.

5. A glove comprising a comparatively stiff adjustable cuff having a fent on one side and an inwardly folding flexible gusset stitched to the edges of the cuff along the fent, straps fastened at one end to the cuff on one side of the fent and provided with fastenings for detachably securing them at the other ends to the cuff on the opposite side of the fent outside of the gusset, and fastenings the members of which are secured to the inside of the cuff on opposite sides of and at a distance from the fent for detachably securing the sides of the cuff together inside of the infolding gusset.

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

FRANK J. STOIBER.

Witnesses:

CHAS. L. GOSS,

FRANK E. DENNETT.