

No. 612,741.

Patented Oct. 18, 1898.

C. E. LONGDEN.  
RUBBER GLOVE.

(Application filed May 2, 1898.)

(No Model.)

Fig. 1

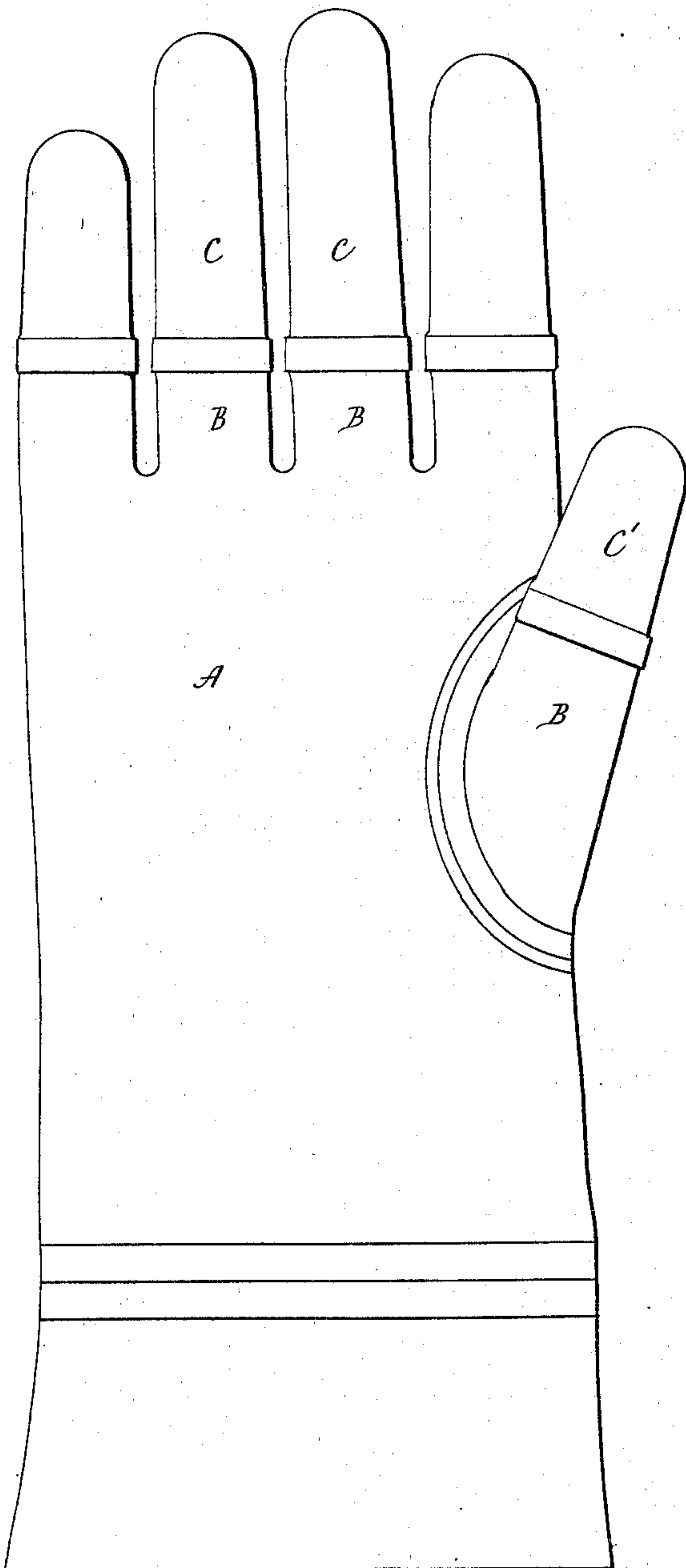


Fig. 2

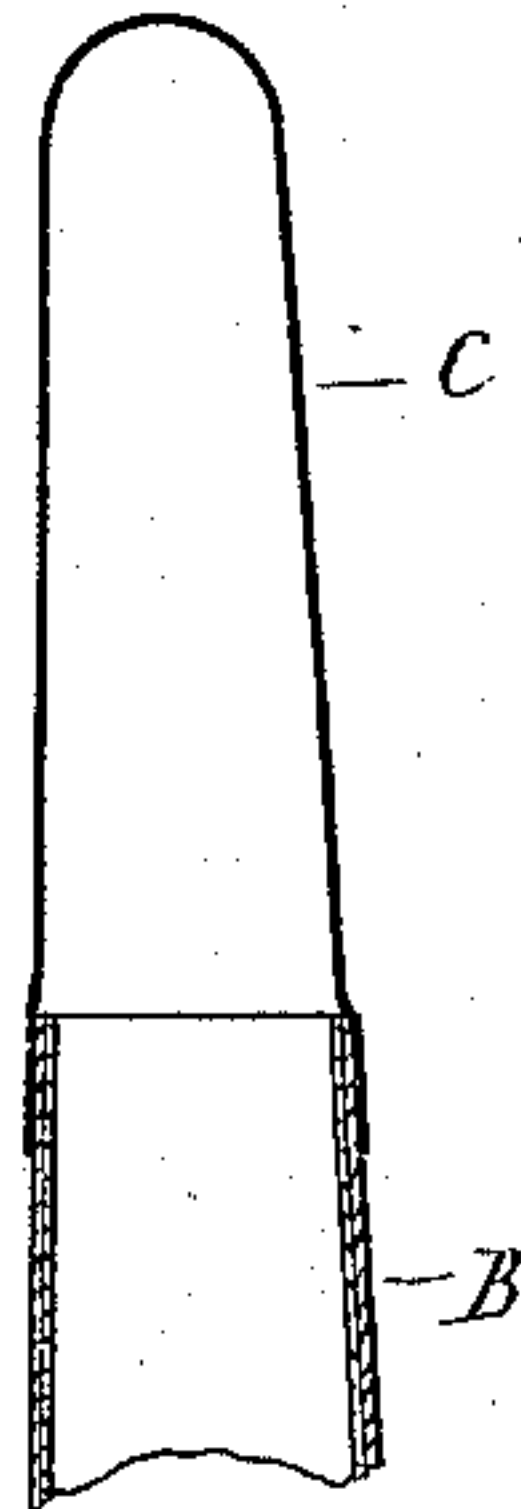
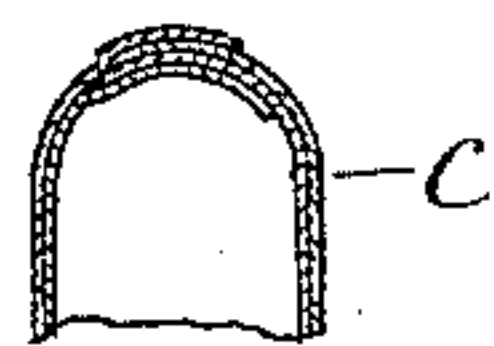


Fig. 3



Witnesses.  
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# UNITED STATES PATENT OFFICE.

CHARLES E. LONGDEN, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO THE SEAMLESS RUBBER COMPANY, OF SAME PLACE.

## RUBBER GLOVE.

SPECIFICATION forming part of Letters Patent No. 612,741, dated October 18, 1898.

Application filed May 2, 1898. Serial No. 679,488. (No specimens.)

*To all whom it may concern:*

Be it known that I, CHARLES E. LONGDEN, of New Haven, in the county of New Haven and State of Connecticut, have invented a new  
5 Improvement in Rubber Gloves; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the  
10 same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, an inside or plan view of a glove embodying my invention; Fig. 2, a sectional view through one of the fingers thereof; and  
15 Fig. 3, a sectional view similar to that shown in Fig. 2, illustrating one of the present constructions.

This invention relates to an improvement in rubber gloves, and particularly to such as  
20 are worn by surgeons and students in performing surgical operations or in dissecting. Heretofore gloves for this purpose have been formed from rubber-coated fabric, the seams of which are overlapped, and hence the fin-  
25 gers, and particularly at the ends, have been so thick as to interfere with the work of the wearer, preventing him from picking up small articles or instruments with his fingers. To overcome this, the gloves have been made with  
30 the hand and finger portions formed from thin rubber; but the strain upon the hand in putting them on and removing them and when at work is so great that they very soon break.

The object of this invention is to produce  
35 a strong glove which will thoroughly protect the hand, yet permit the wearer to have the free use of the ends of his fingers; and it consists in forming the hand portion from rubber-coated fabric and the fingers and thumb  
40 ends from thin rubber, as will be more fully hereinafter described, and particularly recited in the claims.

As herein shown, the hand portion A of the glove and the lower portion B of the fin-  
45 gers and thumb are formed from rubber-coated fabric in the usual manner for forming rubber gloves, and to these lower ends B are attached fingers C and thumb C', the lower ends of which overlap the portions B, to which  
50 they are secured, as shown in Fig. 2, so as to become an integral part thereof. These ends

are constructed of thin rubber, the edges of which are abutted and secured together in the well-known manner of forming "seamless" rubber articles, and so that the thickness of  
55 the finger portions is not increased at the ends, but is uniform throughout. These fingers are made shorter than the actual length of the fingers of the wearer, so that as the glove is drawn on the finger-tips will be tightly  
60 stretched over the fingers and thumb and while fully protecting the fingers will permit their easy manipulation, and as the rubber is so thin the sense of feeling is not materially  
65 interfered with, so that small articles or instruments may be readily picked up and used.

To more fully illustrate my invention, I have shown in Fig. 3 a section of the glove as ordinarily constructed from rubber-coated fabric, the finger-seams of which are necessa-  
70 rily overlapped and hence more or less clumsy at their ends.

I am aware that gloves having detachable finger-tips, so that the fingers may be exposed without removing the glove, have been em-  
75 ployed.

I am also aware that gloves having their finger portions of different material from the hand portions and so that the finger portions may be more conveniently formed may be  
80 made, and therefore do not wish to be understood as claiming either as my invention; but,

Having fully described my invention, what I claim as new, and desire to secure by Letters  
85 Patent, is—

1. A rubber glove having the finger-tips integral with but of lighter material than the hand portion of the glove, substantially as de-  
scribed.

2. A rubber glove comprising a hand por-  
90 tion formed from rubber-coated material and seamless rubber fingers of lighter material than the said hand portion, to which they are permanently secured substantially as de-  
95 scribed.

In testimony whereof I have signed this specification in the presence of two subscrib-  
ing witnesses.

CHARLES E. LONGDEN.

Witnesses:

FRED. C. EARLE,  
LILLIAN D. KELSEY.