(No Model.)

H. B. FRAZIER.

BOXING GLOVE.

No. 600,779. Patented Mar. 15, 1898.

Fig. 1.

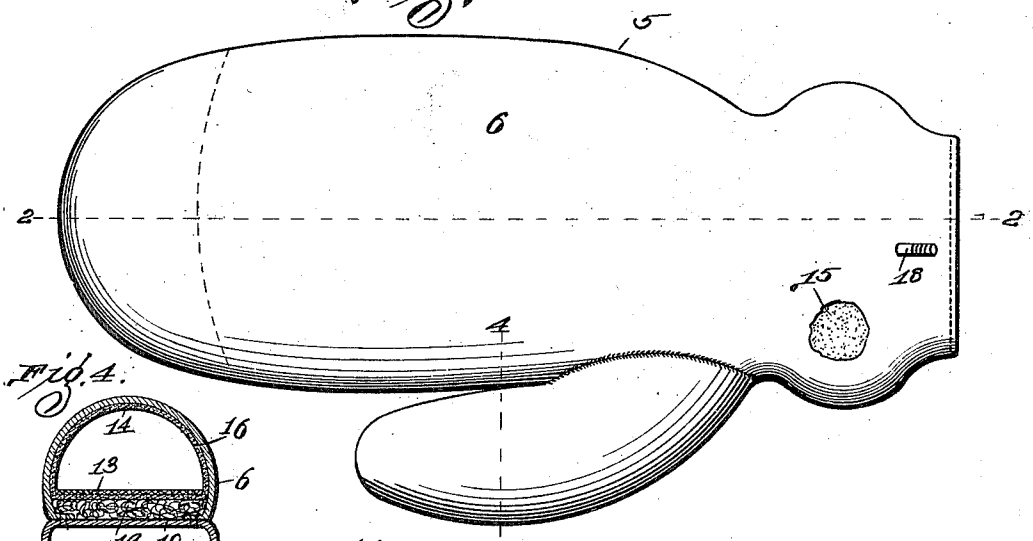


Fig. 4.

Fig. 2.

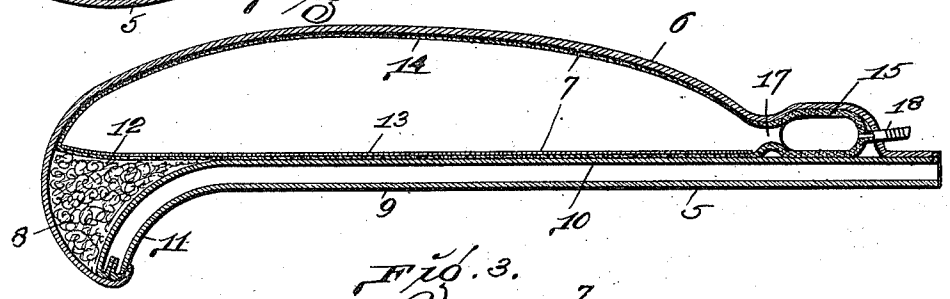
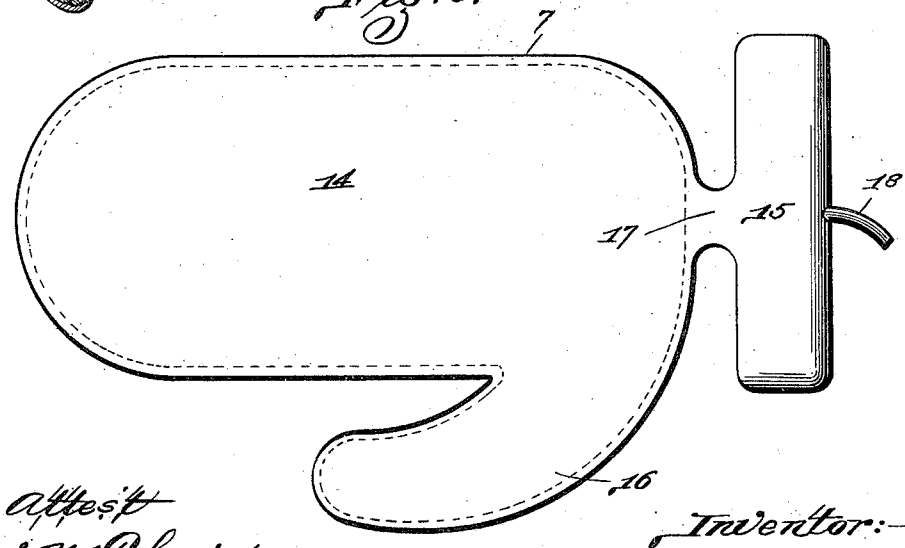


Fig. 3.



Attest:
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UNITED STATES PATENT OFFICE.

HORACE B. FRAZIER, OF ST. LOUIS, MISSOURI.

BOXING-GLOVE.

SPECIFICATION forming part of Letters Patent No. 600,779, dated March 15, 1898.

Application filed June 18, 1897. Serial No. 641,318. (No model.)

To all whom it may concern:

Be it known that I, HORACE B. FRAZIER, of the city of St. Louis, State of Missouri, have invented certain new and useful Improvements in Pneumatic Boxing-Gloves, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to pneumatic boxing-gloves; and it consists of the novel construction, combination, and arrangement of parts hereinafter shown, described, and claimed.

Figure 1 is a back view of the glove. Fig. 2 is a section taken approximately on the line 2 2 of Fig. 1. Fig. 3 is a plan view of the inflatable sack. Fig. 4 is a cross-section through the thumb and taken approximately on the line 4 4 of Fig. 1.

My improved boxing-glove consists of the glove proper, 5, the inflatable casing 6, attached to the back of the glove proper, the inflatable sack 7, located in the casing 6 and against the back of the glove proper, and the hair cushion 8, located back of the tips of the fingers and in front of the inflatable sack.

The glove proper consists of the front portion 9 and the back portion 10, and the casing 6 is securely attached in position relative to said glove. The tip ends 11 of the fingers are curved toward the palm of the glove, and the curled-hair cushion 8 is inserted between the cushion 6 and the back section 10 in such a way that the back face 12 of said cushion 8 is in alinement with the uncurved portion of said section 10.

The inflatable sack consists of the front portion 13, the back portion 14, the supplementary cushion 15, and the thumb portion 16. The front section 13 consists of a layer of rubber and a layer of canvas securely stuck together, as required, to destroy the elasticity of the rubber and prevent said section from stretching and yielding under tension. The back portion 14 is constructed of rubber and specially designed to yield—that is, expand or contract under the varying tensions or pressures which may be applied to it. Normally the sections 13 and 14 are of the same size, and when the sack is inflated the section 14 stretches, while the section 13 does not. The supplementary cushion 15 is a rectangular rubber sack constructed to expand and contract under varying tensions or pressures, the material of said sack being considerably stronger than the material of the back section 14. In other words, it requires more tension to expand the supplementary cushion 15 than to expand the section 14. The supplementary cushion 15 is connected to the sections 13 and 14 by means of the tubular neck 17, and a pipe or valve 18 extends from said cushion 15 and provides a means of inflating the sack.

The thumb portion of the glove is constructed as shown in cross-section in Fig. 4. The thumb portion of the inflatable casing is secured in position against the thumb portion of the back section 10 of the glove proper, 5. A curled-hair cushion 19 is placed within the inflatable casing and secured in position upon the opposite side of the wall of said casing from said section 10. The thumb portion 16 of the inflatable sack is constructed in the same manner as the main portion of the sack 6 by the use of the non-elastic portion 13 and the elastic portion 14, and said thumb portion 16 is placed within said thumb portion of the casing back of the curled-hair cushion 19. When the sack 7 is inflated, the expansion of the back portion 14 will cause the finger-tips of the glove proper to curve into the palm of the hand, thus making it unnecessary for the wearer to hold the glove closed, thereby greatly relieving the strain upon the muscles. The force of the impact upon the main portion of the glove or upon the thumb portion will force air through the neck 17 into the supplementary cushion 15, thereby expanding said cushion, and as soon as the pressure is removed the air will again return to its normal position. The curled-hair cushion 8 provides a supplementary protection to the finger-tips and greatly increases the efficiency of the glove. The curled-hair cushion 19 upon the back of the thumb provides a supplementary protection to the thumb.

The supplementary cushion 15 extends around the wrist of the wearer, as indicated in Fig. 1, said cushion meeting or nearly meeting on the front side of the wrist.

I claim—

1. In a pneumatic boxing-glove, the combination with the glove proper of an inflatable casing attached to said glove, an inflat-

able sack within said inflatable casing, said inflatable sack being constructed with the flexible non-elastic front section and the elastic back section, substantially as specified.

2. In a pneumatic boxing-glove, the combination with the glove proper, of an inflatable casing, an inflatable sack within said casing and a curled-hair cushion 8 within said casing and located upon the backs of the tips of the fingers of the glove proper, substantially as specified.

3. In a pneumatic boxing-glove, the combination with the glove proper, of an inflatable casing, an inflatable sack within said inflatable casing and a curled-hair cushion 19 within said inflatable casing and between said inflatable sack and the thumb portion of the glove proper, substantially as specified.

4. In a pneumatic boxing-glove, the combination with the glove proper, of an inflatable casing attached to the glove proper, an inflatable sack located within said inflatable casing, a supplemental inflatable sack attached to the first-mentioned inflatable sack and located within said inflatable casing and at the wrist of the glove, and a tube connecting the first-mentioned sack with the supplemental sack, said supplemental inflatable sack being constructed of stronger material than the first-mentioned sack, substantially as specified.

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

HORACE B. FRAZIER.

Witnesses:
ALBERT J. MCCAULEY,
M. P. SMITH.