(No Model.)

H. HEYDER.

SHOULDER BRACE.

No. 447,464. Patented Mar. 3, 1891.

Fig. 1.

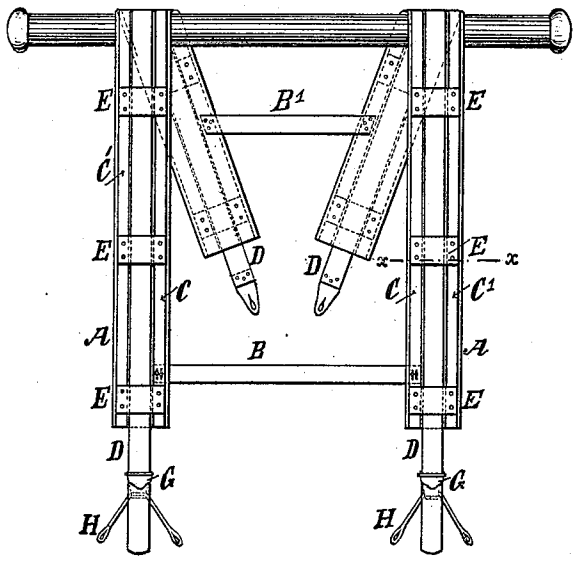


Fig. 2.

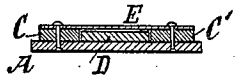
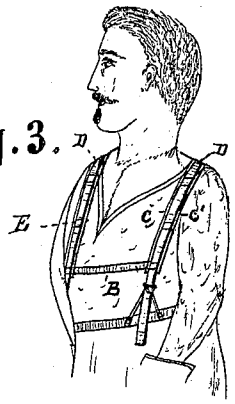


Fig. 3.



Witnesses:
Wm. Wagner
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Inventor:
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by his attorneys
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UNITED STATES PATENT OFFICE.

HERRMANN HEYDER, OF REICHTHAL, GERMANY.

SHOULDER-BRACE.

SPECIFICATION forming part of Letters Patent No. 447,464, dated March 3, 1891.

Application filed November 28, 1890. Serial No. 372,850. (No model.) Patented in Germany March 8, 1890, No. 54,605.

To all whom it may concern:

Be it known that I, HERRMANN HEYDER, a subject of the King of Prussia, residing at Reichthal, Province of Silesia, Germany, have invented certain new and useful Improvements in Shoulder-Braces, (for which I have obtained a patent in Germany, No. 54,605, dated March 8, 1890,) of which the following is a specification.

This invention relates to an improvement in shoulder-braces by which a longitudinal movement of the straps is permitted.

It consists in the various features of improvement, more fully pointed out in the claims.

In the accompanying drawings, Figure 1 is a front view of the braces. Fig. 2 is an enlarged cross-section on line *x x*, Fig. 1. Fig. 3 shows the braces in use.

The braces consist of two straps or bands A A, connected by cross-bands B B′. Upon each of the straps A are fastened two parallel strips C C′, between which there is left a free space or groove, in which longitudinal bands D are placed so that they can move backward or forward.

To guide and confine the movement of the bands D, straps E are fastened at certain distances apart upon the strips C C′, which straps E are fixed, but allow the movement of the bands D backward and forward upon the bands A A with every movement of the body.

The bands D have at their rear ends button-holes or equivalent devices and at their front ends they are provided with buckles G and straps H, as usual.

The bands D may be made of leather, rubber, or cloth. They move easily upon their fixed supports A, so that the buttons do not come off by any violent movement of the body.

What I claim is—

1. The combination of bands A with strips C C′ secured thereto to form grooves, straps E, spanning the grooves, and with longitudinal bands D within the grooves and having fastening devices at the ends, substantially as specified.

2. The combination of bands A with strips C C′ secured thereto to form grooves, straps E, spanning the grooves, longitudinal bands D within the grooves and having fastening devices at the ends, and with cross-bands B B′, that connect bands A, substantially as specified.

In testimony whereof I hereunto sign my name, in the presence of two subscribing witnesses, this 13th day of November, 1890.

HERRMANN HEYDER.

Witnesses:
W. CINCH,
WILLIAM H. MUSSELMAN.