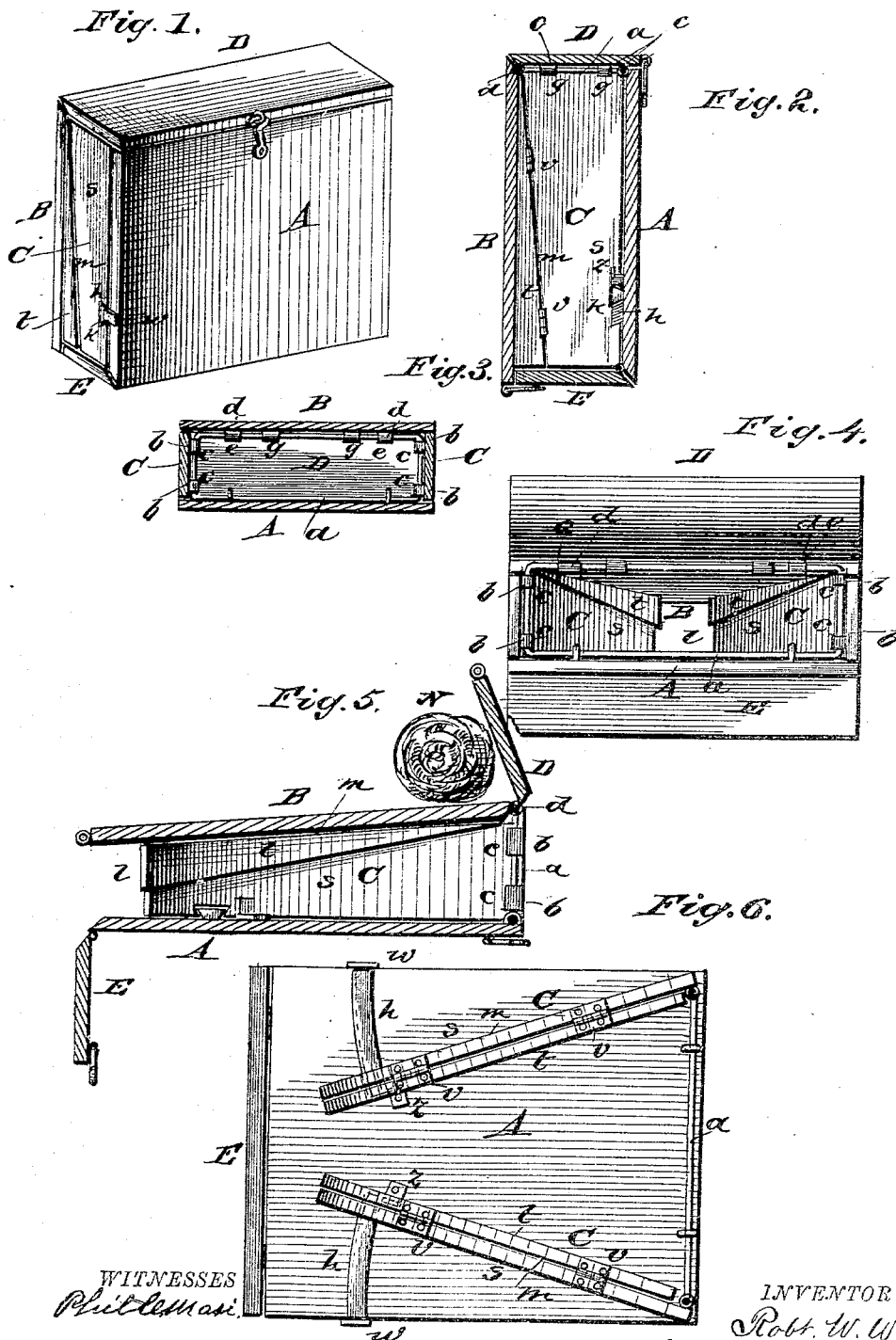


(No Model.)

R. W. WEBB.
BULLET SHIELD KNAPSACK.

No. 303,901.

Patented Aug. 19, 1884.



WITNESSES
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UNITED STATES PATENT OFFICE.

ROBERT W. WEBB, OF NORFOLK, VIRGINIA.

BULLET-SHIELD KNAPSACK.

SPECIFICATION forming part of Letters Patent No. 303,901, dated August 19, 1884.

Application filed May 17, 1884. (No model.)

To all whom it may concern:

Be it known that I, ROBERT W. WEBB, a citizen of the United States, residing at Norfolk, in the county of Norfolk and State of Virginia, have invented certain new and useful Improvements in Bullet-Shield Knapsacks; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a perspective view of my device. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a cross-section. Fig. 4 is an end view. Fig. 5 is also a vertical section, and Fig. 6 a plan view.

This invention has relation to soldiers' knapsacks; and it consists, mainly, in providing a knapsack with walls adapted to be adjusted to form a bullet-shield embrasure, all as herein-after set forth, and pointed out in the appended claims.

In the accompanying drawings, the letter A designates the inner or back wall of the knapsack; B, the outer wall; C C, the side walls, and D and E the top and bottom or end walls thereof when the knapsack is in its normal position, strapped to the back. When, however, it is to be used as a bullet-shield or embrasure, it is placed on the parapet or ground in front of the soldier, in horizontal position, in which the wall A becomes the bottom; B, the top; C C, the sides, and D and E the ends, which are respectively folded upward and downward. In the construction shown the wall A is provided at its end with a strong wire, *a*, bent in rectangular form, to provide bearings at *b b* for the hinge-barrels *c c* of the side pieces, C, and at *d* for the hinge-barrels *e e* of the top B, and for the hinge-barrels *g g* of the end piece D. To the front end of the wall A is pivoted the end E. The upper or inner surface of the wall or piece A is provided with arc-shaped guides *h*, which may be dove-tail or T form in cross-section, to engage bear-

ings *k*, or notches of similar form, made in the lower edges of the side pieces, C, so that said side pieces can be moved inward or toward each other in front, thereby forming an embrasure, the sides of which slope toward each other, to provide a small front opening at *l*, through which the muzzle of a musket or rifle may be protruded.

In order to lessen still further the size of the opening *l*, and to provide a sloping top to the embrasure, the edges *m* of the sides C are made inclined or sloping from their rear ends forward. When, however, the knapsack is constructed with rectangular side pieces, each side C is made in two sections, *s* and *t*, which are connected by hinges *v* along an inclined joint, as shown, so that when the upper sections, *t*, are folded inward the top B will rest upon the inclined edge *m* of the lower or main section. The arc-guides *h* are provided with end stops, *z* and *w*, to limit the movements of the sides inward and outward. When in position as an embrasure, the front end piece, E, is allowed to fall downward, and affords protection below the level of the floor A of the embrasure, and by turning the end piece D upward protection is afforded above the level of the highest portion of the top B of the embrasure, this protection being increased by placing the blanket or garment roll N on the top B, just in front of the piece D.

In order to hold the parts securely in position as an embrasure, side rods may be provided; but this is not regarded as essential.

The walls of the knapsack are designed to be made of steel, and when they are adjusted to form a knapsack they are connected together securely by hooks or other common fastenings.

What I claim, and desire to secure by Letters Patent, is—

1. A bullet-shield knapsack having pivoted steel walls, substantially as specified.

2. A bullet-shield knapsack having its side walls made in sections formed with oblique joint edges, and pivoted to allow the upper sections to fold inward.

3. A bullet-shield knapsack having sec-

tional side walls adjustably connected to the back, pivoted end walls, and top, and curved guides connecting the back and side walls.

4. A knapsack having movable parts, whereby it is adapted to be converted into a bullet-
5 shield embrasure, substantially as specified.

5. The combination, with the back wall, A, having the pivoted end piece E, of the piv-

oted top B, and pivoted side walls, C C, substantially as specified. 10

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

ROBT. W. WEBB.

Witnesses:

PHILIP C. MASI,
M. P. CALLAN.