A. CARRINO.
BULLET PROOF SHIELD.
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ANDREW CARRINO, OF ROCK FALLS, ILLINOIS.

BULLET-PROOF SHIELD.

1,282,752.


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To all whom it may concern:

Be it known that I, ANDREW CARRINO, a citizen of the United States, residing at Rock Falls, in the county of Whiteside and State of Illinois, have invented certain new and useful Improvements in Bullet-Proof Shields, of which the following is a specification.

My invention has reference to bullet-proof shields, and is specially designed for use between the lines of enemy forces, in cutting barb wire entanglements and similar operations. It is not, however, limited to such uses, but may be employed for a variety of purposes.

The construction of my device is novel, the same being formed of materials possessing a maximum degree of resistance to the penetration of projectiles fired by the small arms of a military force.

In the drawings: Figure 1 is a front elevation of a shield embodying my invention. Fig. 2 is a side view thereof. Fig. 3 is a vertical section of a section thereof. Fig. 4 is a similar view, showing a modified construction.

The device is made in the form of a casing, having a front plate 1 of sheet metal, provided with flanges 2, and a rear metal plate 3. The front and rear plates are held together by a plurality of studs or rivets 4. Just back of the plate 1 is a sheet of rubber 5, having a tough fabric center, such as is found in the heavier pieces of belting. Back of the sheet 5 is a layer of matted cotton 6, or similar material, and in rear of said layer is another sheet of rubber 7 similar to the sheet 5. In rear of the sheet 7 is the plate 3 before referred to. The central layer 6 is compressed as fully as possible and all of said parts are held tightly together by the rivets 4.

The sheets 1 and 3 are formed of metal possessing the greatest degree of toughness, and, when combined with the other substances mentioned, an object can be produced which will successfully withstand the force of the smaller class of ammunition.

The shield shown herein is provided with folding legs 8, and a brace 9, connecting said legs with the shield, but capable of being disconnected and folded against the shield for transportation purposes. The shield is also provided with a strap 10 by means of which it can be supported from the shoulders of the user. Such shield is designed to be of sufficient size to form a protection for the body of a soldier, in a reclining position, and when in use would be pushed gradually ahead of the soldier, when operating in dangerous territory. It is also suitable for being supported on the ground just in front of a trench, for observation purposes, or for firing at the enemy. For this purpose it is provided with an eye-hole 11, and a similar opening 12, projected downwardly into a rifle-hole 13.

A shield formed in the manner described is of practically one inch in thickness, and has a weight of about twelve pounds. It can be made in smaller sizes and shapes for breast-plates, helmets, and similar articles.

In Fig. 4 is shown a form of my invention in which the central layer 6 is replaced with a thickness of concrete 14. This would add to the weight of the device, and a shield made in this way might be limited to use in connection with a trench or other fortification.

What I claim and desire to secure is:

1. A device of the class described, comprising a sheet metal casing; sheets of rubber fabric within the front and rear plates of said casing; and a layer of matted fibrous material between said sheets.

2. A device of the class described, comprising a casing, having a sheet metal front plate, and a sheet metal rear plate; sheets of rubber fabric on the inner faces of said plates; and a non-penetrable substance compressed tightly between said sheets.

3. A device of the class described, comprising a shield, formed of spaced-apart sheet-metal plates, rubber fabric sheets within said plates, and a matted fibrous material between said sheets; and means for supporting said shield in position.

4. A device of the class described, comprising a shield, formed of a pair of spaced-apart plates of metal, sheets of rubber fabric within said plates, and compressed matted fibrous material between said sheets; means for supporting said shield; and openings therein for eye and rifle sights.

In testimony whereof I affix my signature.

ANDREW CARRINO.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D.C."

Andrew Carrino