

W. E. BUDD & J. W. OGDEN.
Gun-Wad.

No. 217,727.

Patented July 22, 1879.

Fig. 1.

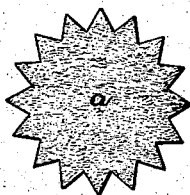


Fig. 2.

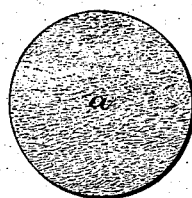


Fig. 5.

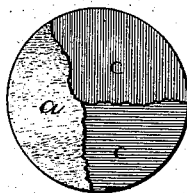
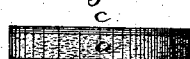


Fig. 3.



Fig. 4.



Witnesses:

J. W. Garner
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Inventors:

W. E. Budd,
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per
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att'y.

UNITED STATES PATENT OFFICE.

WILLIAM E. BUDD AND JOSEPH W. OGDEN, OF CHATHAM, NEW JERSEY.

IMPROVEMENT IN GUN-WADS.

Specification forming part of Letters Patent No. 217,727, dated July 22, 1879; application filed March 28, 1879.

To all whom it may concern:

Be it known that we, WILLIAM E. BUDD and JOSEPH W. OGDEN, of Chatham, in the county of Morris and State of New Jersey, have invented certain new and useful Improvements in Gun-Wads; and we do hereby 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

Our invention relates to an improvement in gun-wads and scrapers; and it consists in the combination of a wooden scraper or cleaner with a common gun-wad, as will be more fully described hereinafter.

Figures 1 and 2 are plan views of our invention. Figs. 3 and 4 are side elevations. Fig. 5 is a plan view in sections.

a represents an ordinary gun-wad, to which is secured, in any suitable manner, the scraper or cleaner *c*. This scraper is made of either a single thickness of thin board or of several veneers stuck together, the grains of which run at right angles to each other. The scrapers may be used in connection with the common wads or by themselves, as they alone can be used as wads to a considerable extent. When the scrapers are made of several veneers, the grains running at right angles, the ends of the grain of the wood will be in contact with the sides of the barrel all the way around.

In order to make the scrapers more thoroughly clean out all of the obstructions that may be formed in the barrel, they may be serrated, together with the wads, all around their edges.

By serrating the edges of the scraper or cleaner, the obstructions or foulness in a gun caused by frequent firing will be scraped and cleaned away without the slightest injury to the finest barrel, which is not the case with scrapers or cleaners made of metal.

The serrated edges of the cleaner also serve to make it catch and hold against the sides of the barrel, so that whether used alone or with the wad, it will hold the ammunition in the cartridge-shell or gun-barrel without any danger of dropping out. The serrations in the edge of the wad also serve to make it take a better hold on the barrel. These wooden cleaners, whether used with plain or serrated edges, or with or without the wads, will be more effective in keeping the barrels clean than any material we have yet seen, and at the same time be perfectly harmless to the barrel under all circumstances.

Having thus described our invention, we claim—

1. The combination of a gun cleaner or scraper made of wood with a common gun-wad, substantially as specified.

2. The combination of a wooden scraper with a gun-wad, their edges being serrated, as shown.

In testimony that we claim the foregoing we have hereunto set our hands this 21st day of March, 1879.

WILLIAM E. BUDD.
JOSEPH W. OGDEN.

Witnesses:

EDWARD C. HARRIS,
FRED. H. LUM.