

(No Model.)

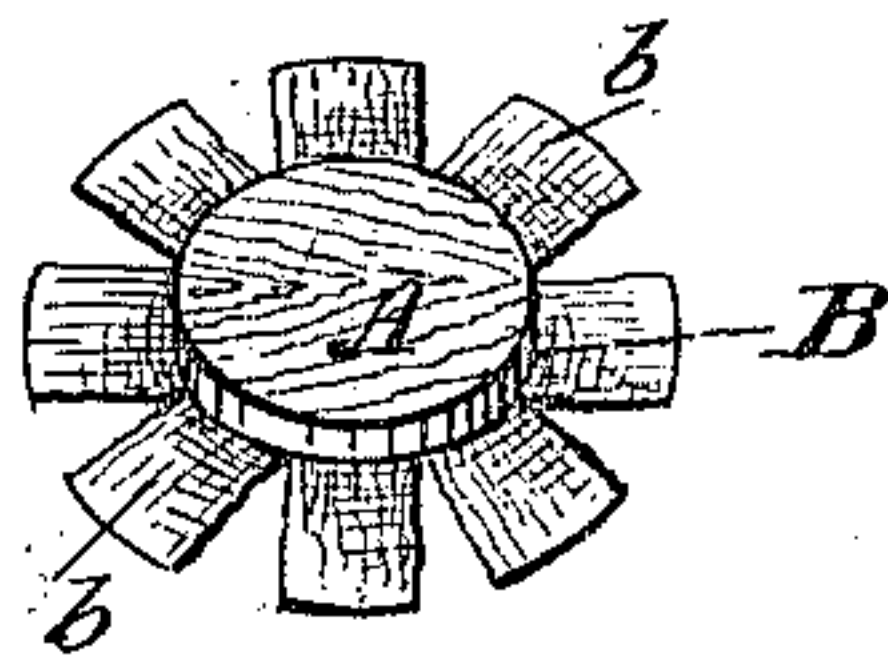
M. S. ALEXANDER.

GUN WAD.

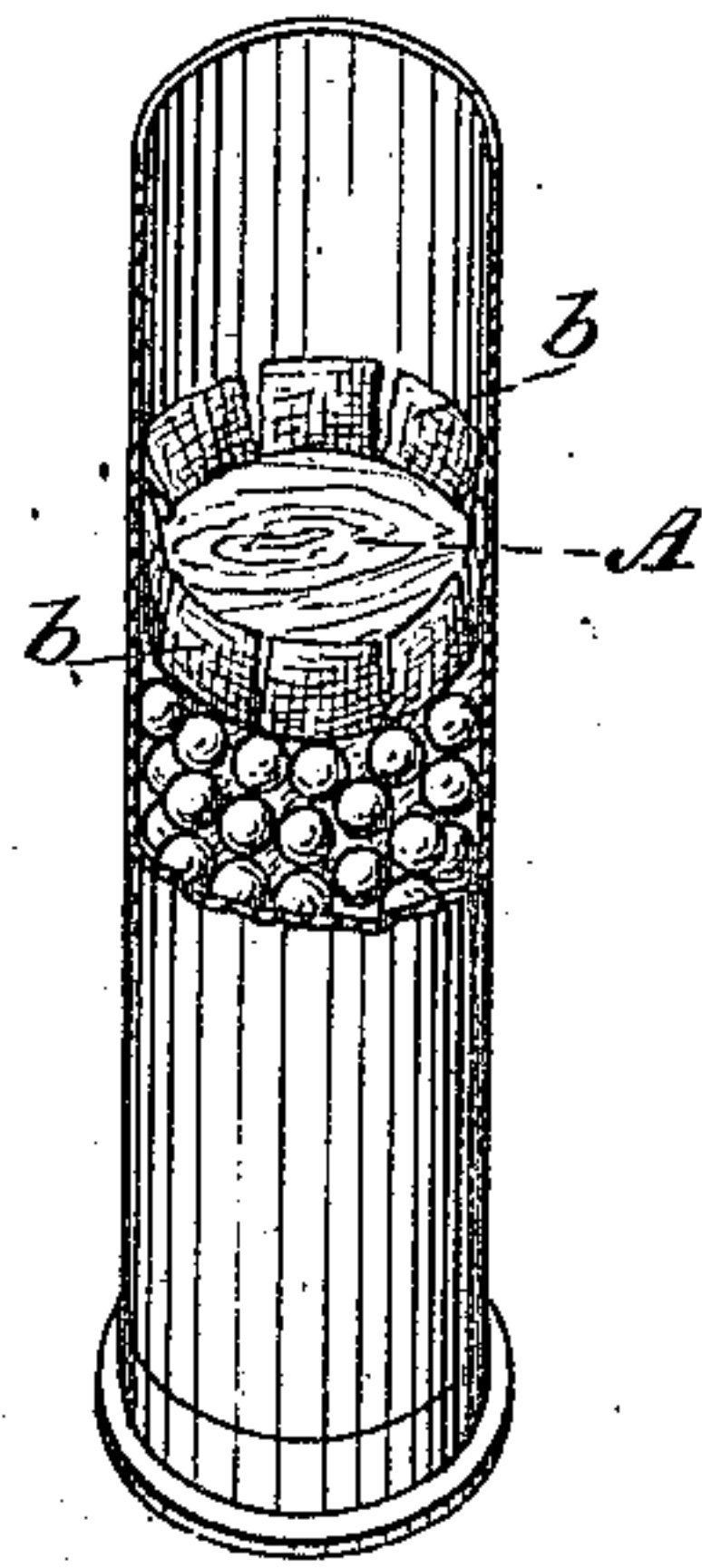
No. 294,177.

Patented Feb. 26, 1884.

*Fig. 1.*



*Fig. 2.*



*Witnesses:*

*J. C. Bruch*  
*David H. Mead*

*Inventor:*

*Marcellus S. Alexander*

*By J. M. Crowl*  
*Attorney.*

# UNITED STATES PATENT OFFICE.

MARCELLUS SHERRARD ALEXANDER, OF MOOREFIELD, WEST VIRGINIA.

## GUN-WAD.

SPECIFICATION forming part of Letters Patent No. 294,177, dated February 26, 1884.

Application filed January 3, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, MARCELLUS S. ALEXANDER, a citizen of the United States, residing at Moorefield, West Virginia, have invented new and useful Improvements in Gun-Wads, of which the following is a specification.

My invention relates to an improvement in wads designed particularly for use in loading cartridges. Heretofore several methods of fastening the last wad in cartridges have been employed, and the one most generally in use is that of crimping the shell itself from the wad upward, making that portion of the shell enough smaller in circumference to effectually prevent the wad from rising unless extraordinary pressure is exerted, as by the explosion of the charge. Aside from the fact that this way of securing the wad requires the use of a more or less expensive implement for doing the crimping, it has another disadvantage in that a paper shell after it has been once crimped and fired, is nearly destroyed and in a great measure unfit for further use. Another way of securing the wad is in providing the same with a coating of mucilage or analogous material around its periphery, and by this means securing it to the inner walls of the shell. This method has many defects, principal among which is the cost of the wads, which is very great, comparatively speaking, because the periphery of the wad, in order to form a suitable surface for the deposition of the adhesive coating, has to be glazed or prepared in a like manner to present a hard surface.

My invention has for its object to provide a wad cheap in construction and easy of application, and by the use of which the load is secured in a shell with all desirable firmness, and also by the use of which a paper shell may be used an indefinite number of times.

With this end in view my invention consists of a wad provided with a disk of paper or cloth secured to the said wad by pressure or by the interposition of adhesive material.

In the drawings, Figure 1 is a perspective view of my improved wad, and Fig. 2 a central vertical section of a shell with the wad applied.

In these drawings, A represents the wad, which is of the ordinary thickness, and which may be of the ordinary construction and material. B represents the disk, which is preferably notched around its edge, forming leaves *b*, to insure the ready upturning of the edges when the rod is forced into the shell. The notches or kerfs are angular and of a width to allow the edges on each side of the notch to meet and form a continuous upturned portion, which comes in contact with the interior face of the shell. The under sides of the leaves *b* are coated with an adhesive material, and in applying the wad the leaves are moistened, and then the wad is forced down into the shell. This brings the leaves into contact with the inner-wall of the shell, in which position it is allowed to dry.

The improved wad may be applied by simply moistening the under side of the projections with a brush or the like and then introducing it into the shell; but I prefer using the device invented by me expressly for the purpose, and for which I solicit a patent by an application executed by me of even date herewith.

Having thus described my invention, what I claim is—

1. The combination, with a gun-wad, of a disk of suitable material attached thereto, and extending a short distance beyond the periphery of said wad, said projecting portion being provided with adhesive material for securing the wad in place, substantially as described.

2. The combination, with a gun-wad, of a disk of suitable material attached thereto, and having the notched projecting portion provided with a coating of adhesive material, substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

MARCELLUS SHERRARD ALEXANDER.

Witnesses:

JOHN WILSON,  
ALBERT ALEXANDER.