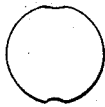


A. C. HOBBS.  
Gun-Wad.

No. 218,629.

Patented Aug. 19, 1879.

*Fig. 2.*



*Fig. 1.*



*Fig. 3.*



*Witnesses*  
*M. Hartley.*  
*Malcolm Graham*

*Inventor*  
*A. C. Hobbs*

# UNITED STATES PATENT OFFICE.

ALFRED C. HOBBS, OF BRIDGEPORT, CONNECTICUT.

## IMPROVEMENT IN GUN-WADS.

Specification forming part of Letters Patent No. **218,629**, dated August 19, 1879; application filed June 6, 1879.

### *To all whom it may concern:*

Be it known that I, ALFRED C. HOBBS, of Bridgeport, Connecticut, have invented a new and Improved Gun-Wad, of which the following is a full, clear, and exact description, having reference to the accompanying drawings, in which—

Figure 1 is an edge view of the wad; Fig. 2, a front view, showing the hard disk; Fig. 3, a front view, showing the soft disk.

The purpose of a gun-wad is to confine the charge, and also to cleanse the bore of the gun as it moves through the barrel at the time of the discharge. These wads, as is well known, are made of paper, cloth, card-board, and other similar materials.

My improved wad consists in uniting two disks of card-board or other material which will not crack, break, or warp, and which contract and expand equally in all directions in the same wad, one of which disks is sufficiently hard to drive the projectile or projectiles, in the case of shot being used, and at the

same time to cleanse the barrel, while the other is sufficiently soft and compressible to hold the lubricating material and to allow its being squeezed out under pressure, which pressure is applied by the ramming of the ramrod and the force of the explosion. In this manner my wad serves a double purpose.

In the drawings, in Fig. 1 the hard disk is seen at *a*, and the soft disk is seen at *b*. In Fig. 2 the face of the hard disk is seen. In Fig. 3 the face of the soft disk is seen.

Instead of soft card-board, I sometimes use felt, cloth, or similar material.

What I claim as my invention is—

As a new article of manufacture, a gun-wad composed of two disks of card-board, felt, or similar homogeneous material, one of said disks being soft and the other hard, and both embodying the properties described.

A. C. HOBBS.

Witnesses:

M. HARTLEY,  
MALCOLM GRAHAM: