

1,057,646.

Patented Apr. 1, 1913.

Fig. 1

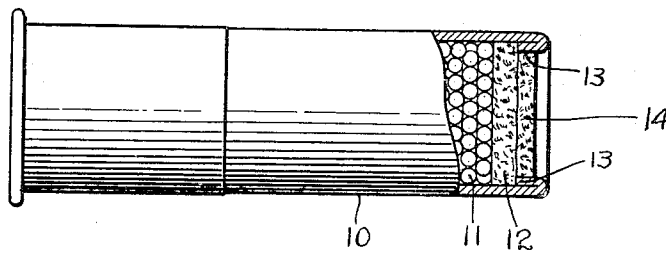


Fig. 2

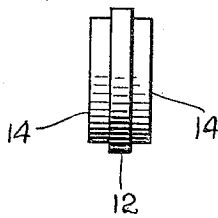
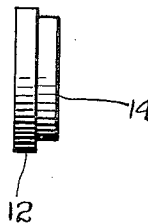


Fig. 3



WITNESSES:

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LOADED PAPER SHELL.

1,057,646.

Specification of Letters Patent.

Patented Apr. 1, 1913.

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To all whom it may concern:

Be it known that I, FRANK O. HOAGLAND, a citizen of the United States, residing at Bridgeport, county of Fairfield, State of Connecticut, have invented an Improvement in Loaded Paper Shells, of which the following is a specification.

This invention relates to loaded paper shells and has for its object to provide simple and inexpensive means for preventing the crimp or closure at the ends of loaded shells from opening inward as a result of much handling or long continued hard usage, which may result in the loosening of the closing wad and the loosening and displacement of the shot, thereby impairing the results in firing as the shot are liable to scatter irregularly. This difficulty I overcome in the manner which I will now describe, referring to the accompanying drawing forming a part of this specification and using reference characters to indicate the several parts.

Figure 1 is an elevation of a loaded paper shot shell partly broken away to show the application thereto of my present invention; and Figs. 2 and 3 illustrate variant modes of combining the supplemental wad with the closing wad.

10 denotes a paper shot shell, 11 shot, 12 the closing wad and 13 the closure or inward crimp of the end of the paper shell upon the face of the closing wad whereby the latter is held closely in contact with the shot. When the shells are carried loosely or are subjected to much handling or hard usage of any kind, it not infrequently happens that the closure becomes loosened and springs inward away from the closing wad allowing the latter to become loose and sometimes loosening the shot. In order to wholly overcome this difficulty I provide a supplemental locking wad 14 of reduced diameter, which is set firmly within the closure and against the closing wad, thereby insuring that the closure cannot become loose and loosen the wad even though the shell may be submitted

to pretty hard usage and the end become considerably battered.

If preferred, instead of using an independent supplemental wad of the required diameter to fit closely within the closure, the closing wad and the supplemental wad may be made integral as in either Fig. 2 or Fig. 3. In the form illustrated in Fig. 2, the closing wad is provided on each side with a supplemental wad which may be molded integral therewith or the wad as a whole may comprise three independent wads cemented or otherwise secured together. The advantage of this form is in feeding only. The triple wads may be placed in the feeding tubes or chutes just as they come as it makes no difference which side is upward.

In using the double wads illustrated in Fig. 2, it is of course necessary that they be placed in the feeding tubes with the supplemental wad upward.

In loading with the form of wads illustrated in either Fig. 2 or Fig. 3, the double or triple wad is set in place precisely as the closing wad is in Fig. 1 and the crimping operation performed as before, the inwardly turned end of the shell which forms the closure being passed inside the supplemental wad.

Having thus described my invention I claim:

The combination with a loaded paper shell having the edge of its open end crimped inward, of a main wad closing the shell and forming a seat for the crimped edge of the shell and having supplemental smaller wads permanently connected to the flat surfaces of the same and adapted for selective engagement with the crimped portion of the shell to hold said portion in crimped position within the shell.

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

FRANK O. HOAGLAND.

Witnesses:

GEORGE B. THORPE,
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