

No. 862,878.

PATENTED AUG. 13, 1907.

J. T. BREWER.
BLASTING CARTRIDGE SHELL.
APPLICATION FILED MAR. 25, 1907.



Fig. 1.

Fig. 4.

Fig. 2.

Fig. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

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BLASTING-CARTRIDGE SHELL.

No. 862,878.

Specification of Letters Patent.

Patented Aug. 13, 1907.

Application filed March 25, 1907. Serial No. 364,326.

To all whom it may concern:

Be it known that I, JAMES THOMAS BREWER, a citizen of the United States, residing at Dayton, in the county of Rhea and State of Tennessee, have invented a new and useful Blasting-Cartridge Shell, of which the following is a specification.

This invention relates to a blasting cartridge shell.

The object of the present invention is to provide a simple, inexpensive and efficient blasting cartridge shell, adapted to enable a blasting cartridge to be quickly made.

A further object of the invention is to provide a blasting cartridge shell, adapted, when filled, to be easily introduced into a hole, and having means for enabling a fuse to be readily and securely attached to it.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a side elevation of a blasting cartridge shell, constructed in accordance with this invention and having the fuse attached. Fig. 2 is a plan view of the blank from which the shell is constructed, the clip and the fuse being shown in position. Fig. 3 is a detail sectional view, illustrating the manner of securing the fuse to the shell. Fig. 4 is a detail perspective view of the fuse holding clip.

Like numerals of reference designate corresponding parts in all the figures of the drawing.

1 designates a blasting cartridge shell, constructed of oiled paper, or other damp-proof material, and preferably tapered from top to bottom, and having a lower pointed end 2 to facilitate the introduction of the cartridge into a hole drilled for blasting. The cartridge shell is constructed of a single piece of material, the blank being in the form illustrated in Fig. 1, and cut at the bottom to provide two tapered portions 3 and 4. The blank is folded longitudinally on the dotted line 5, and the longitudinal edge 6 of one side of the blank is folded on the dotted line 7, to provide a longitudinal overlapping flange or portion. The tapered portion 4 is folded on the dotted lines 8 to provide inclined or angularly disposed overlapping portions or flanges 9 and 10. The overlapping portions or flanges 6, 9, and 10 are secured to the outer face of the side, on which they are folded by means of glue, or other adhesive material. The shell thus formed is arranged flat before being inflated and a number of them may be compactly arranged. The shell is adapted to be inflated

for use by blowing into the open end, and, when inflated, it is of cylindrical or substantially cylindrical form. After the shell is inflated, it is filled with powder, and a fuse 11 is then attached by means of a clip 12, previously applied to the interior of the shell and located adjacent to the open end thereof.

The clip 12 which is constructed of sheet metal, has an oblong body portion, and is provided at diagonally opposite points with tongues 13, tapered to enable them to readily pierce the shell and bent transversely against the exterior of the same, whereby the clip is securely fastened within the shell. The clip is provided at the other corners with a pair of inwardly extending fuse-engaging tongues 14, which in practice may be bent flat against the body portion of the clip to enable a number of blasting cartridge shells to be compactly arranged, and which are adapted to be bent partially around a fuse, as clearly illustrated in Figs. 2 and 3 of the drawing. By this construction, a fuse may be readily applied to the shell after the same has been filled with powder. The upper end of the shell is closed by twisting it sharply around the fuse, and when material is packed upon the cartridge, the upper end of the shell will be held closed.

The blasting cartridge shell may be made of any length, and in the making of the blasting cartridges the prepared shells will effect a great saving in time, over the present mode of construction, commonly employed by miners in making cartridges.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. A blasting cartridge shell open at one end and closed at the other, and a clip arranged within the shell near the open end thereof and provided with means for engaging a fuse.

2. A blasting cartridge shell constructed of flexible material, said shell being open at one end and having its other end closed and pointed, and a clip arranged within the shell near the open end thereof and having means for engaging a fuse.

3. A blasting cartridge shell provided with an interiorly arranged clip having tongues for securing it to the shell, said clip being also provided with arms arranged to engage a fuse.

4. A blasting cartridge shell formed from a blank having opposite tapered portions at one end and foldable longitudinally to bring the tapered portions together, one of the tapered portions being provided at its edges with flanges overlapping and secured to the other tapered portion, and one of the side edges of the blank being provided with an overlapping longitudinal flange secured to the other side edge.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JAMES THOMAS BREWER.

Witnesses:

W. L. GIVENS,
T. J. CAMPBELL.