Aug. 28, 1928. 1,682,639

G. F. TEMPLEMAN

BLASTING PAPER

Filed July 10, 1926

Fig. 1.

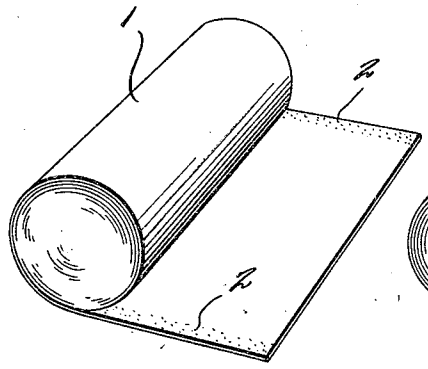


Fig. 2.

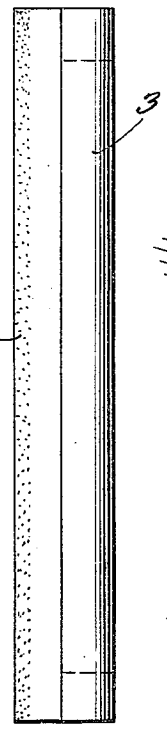


Fig. 4.

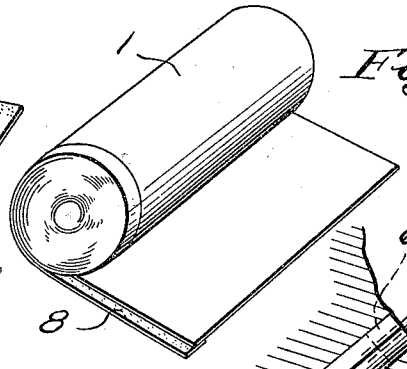
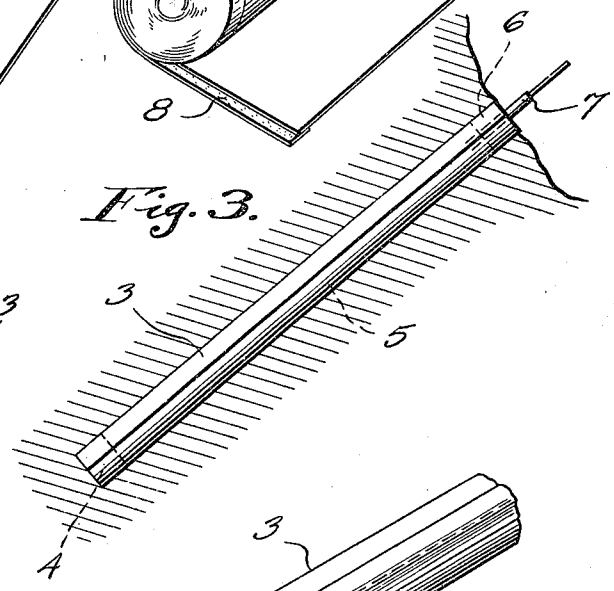


Fig. 3.



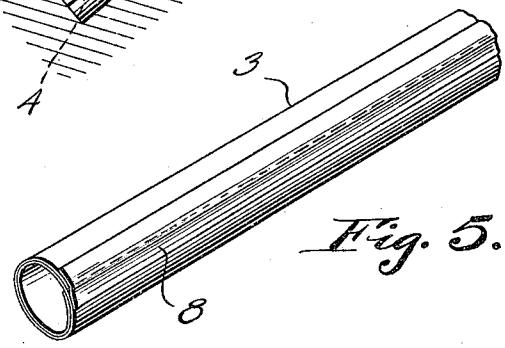


Fig. 5.

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WITNESS:

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UNITED STATES PATENT OFFICE.

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BLASTING PAPER.

Application filed July 10, 1926. Serial No. 121,681.

This invention relates to blasting paper for mining and other purposes and its primary object is to provide paper for forming containers of cylindrical or like shape of various lengths and diameters to produce tubes, cartridges or shells of various size and thicknesses so as to accommodate themselves for holes bored for blasting purposes.

A further object of the invention is to provide a blasting paper arranged in roll formation whereby any quantity can be torn or cut from the roll and shaped in tubular formation to provide a container for holding blasting powder and the like to produce blasting tubes, cartridges or shells having walls of a number of thicknesses sealed from end to end and in a manner to prevent hanging, buckling or expanding while being pushed in a shot hole, or damaged while being carried from place to place.

Another object of the invention is to provide blasting paper normally arranged in roll form and which is provided with an adhesive substance whereby tubes can be easily and expeditiously formed from sheets torn or cut from the rolls and sealed from end to end in such tubular form for holding blasting powder and the like, and the adhesive substance is so arranged on said roll of paper that it is impossible to roll a sheet in tubular form without having the adhesive substance disposed in a correct position to provide a positive and permanent seal or seam for the tube.

A still further object of the invention is to provide water proof blasting paper having adhesive substance thereon, whereby tubes and the like can be formed from said paper and filled with blasting powder and the like and sealed to the exclusion of water and other similar damaging agents or elements.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claim.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a perspective view of a roll of the blasting paper which forms the subject matter of the present invention.

Figure 2 is an elevation of a tube formed from a sheet of paper taken from the roll shown in Figure 1.

Figure 3 is a view showing the application of a completed tube formed by my novel method and being applied in a shot hole.

Figure 4 is a perspective view of a roll of paper showing a modified form of sealing means.

Figure 5 is a similar view of a tube secured by the modified form.

Referring to the drawings in detail and more particularly to Figure 1 it will be noted that the blasting paper is to be arranged in rolls 1 and has its longitudinal edges coated with adhesive substance 2 and on both the upper and lower surfaces of said longitudinal edges, if desired.

Sheets of various lengths are adapted to be torn or cut from the roll, the length of the sheet depending of course upon the size of a tube which is to be formed from said sheet, then the sheets are rolled upon themselves in tubular formation as at 3 as shown in Figure 2.

It is obvious that the tube can be rolled to a size to fit the shot hole as various size holes are made when it is necessary to use different size drill bits or the like.

Of course the tube as shown in Figure 2 when completed can be inserted in the shot hole in the manner as shown in Figure 3 and a quantity of dry clay dust can be put in said tube and will gravitate to form a seal across the bottom of said tube as shown at 4, the powder charge may then be introduced as shown at 5 and a seal of powder 6 to cover the powder, with the fuse 7 applied through the clay dust and into the powder charge. However, the complete shell or cartridge can be formed before the tube is placed in a shot hole, or a complete powder charge may be put in the tube and the ends crimped and sealed over said charge after a fuse 7 has been inserted in the powder.

A modified form of sealing means is disclosed in Figure 4 which shows a roll provided with adhesive tape 8 having a portion thereof secured to the longitudinal edge of the paper of the roll, while the remaining portion of the tape extends beyond the edge for securing the paper torn from the roll, in tubular form having a number of thick-

nesses as shown in Figure 5 of the drawings.

The paper may be properly water proofed so as to retain the charge in a dry state at all times.

The paper of the rolls as shown in Figures 1 and 4, are to have printed or otherwise formed thereon at intervals in its length advertising matter, and of course the paper could be divided in block formation to act as a guide in cutting or tearing the paper from the roll, as will be obvious.

From the above description and the drawings, it will be apparent that any size or length sheet may be torn or cut from the roll 1 and the sheet rolled to a number of thicknesses in tubular formation and retained in said formation by the gummed or adhesive strip 2 or tape 8 which seals the tube from end to end to provide a water proof container for powder to be used for blasting or other purposes.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claim.

What I claim is:

In a blasting charge container, a roll of blasting paper having adhesive material on its longitudinal edges, said roll being adapted so that a sheet of paper can be taken therefrom with adhesive material on two edges thereof for forming a tube by rolling the sheet from either of its said two edges whereby one of the edges may be used for sealing the sheet in tube formation.

In testimony whereof I affix my signature.

G. FARRIS TEMPLEMAN.