

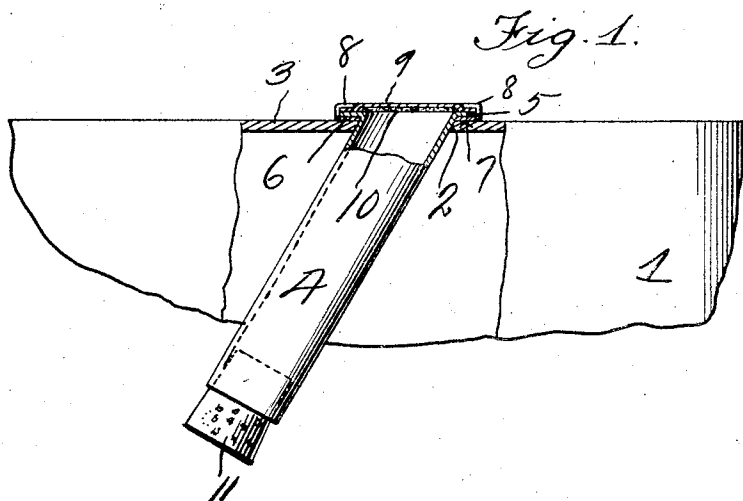
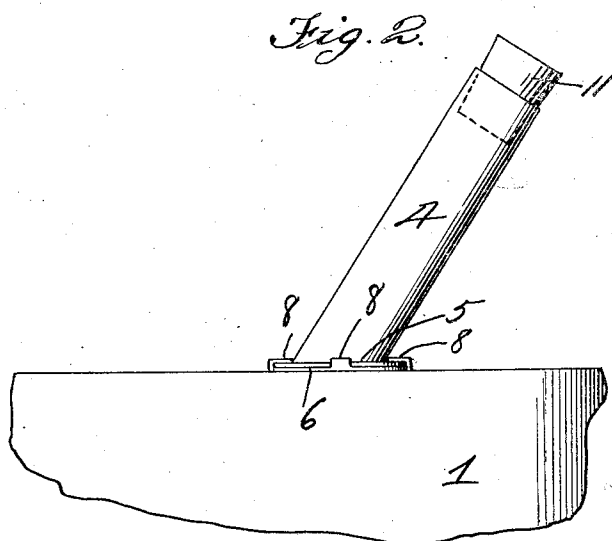
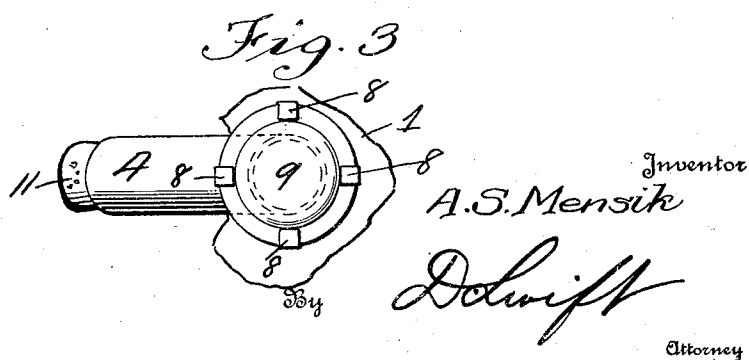
Sept. 21, 1926.

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A. S. MENSİK

POWDER CAN SPOUT

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UNITED STATES PATENT OFFICE.

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POWDER-CAN SPOUT.

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The invention relates to powder can spouts, and has for its object to provide a device of this character wherein the spout at its inner end is provided with an integral annular flange attached to the powder can around an opening therein by means of prongs carried by the can and bent over a closure disc registering with the inner end of the spout while the spout is disposed within the can, said prongs allowing the spout to be removed from the can and the flange attached to the powder can around the opening therein, and the spout reversed in position for use. The spout is particularly designed to obviate the present practice of miners who often form a hole in the powder can or enlarge the hole in the powder can by driving a pick therein, and which operation often causes explosion.

A further object is to interpose a disc washer between the closure cap and the flange when the spout is disposed within the can, thereby forming a moisture and air proof connection, which is extremely desirable during storage or shipping purposes.

With the above and other objects in view the invention resides in the combination and arrangement of parts as hereinafter set forth, shown in the drawing, described and claimed, it being understood that changes in the precise embodiment of the invention may be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawing:—

Figure 1 is a side elevation of a portion of a conventional form of powder can of the type used in mines showing the spout applied thereto, and partially broken away to better show the structure.

Figure 2 is a side elevation of the spout and a portion of the can, showing the spout in reverse position for use.

Figure 3 is a top plan view of a portion of the can and the spout carried thereby in inoperative position.

Referring to the drawing, the numeral 1 designates a portion of powder can of the type used in mines and 2 an opening in the end wall 3 thereof. Heretofore powder cans have been provided with screw caps in various forms of closures, however they are of a type which do not meet the requirements of a miner, and it has become the practice for miners to form holes in the powder cans with picks, which is an ex-

tremely dangerous operation, as friction is created and often sparks, which ignite the powder. To obviate this difficulty the spout 4 is provided. The spout 4, during storage and shipment of the powder can is disposed within the powder can as clearly shown in Figure 1, and when the powder can is in use, the spout 4 is reversed, and placed in position shown in Figure 2, and through which spout the powder in the can 1 may be discharged from the can as desired. The inner end of the spout 4 is provided with an annular flange 5 at an angle to the spout other than a right angle, and which annular flange, when the spout 4 is in inoperative position as shown in Figure 1, rests on the disc or ring 6, which is welded or soldered at 7 to the end 3 of the can and the spout extends into the can. The ring 6 is provided with spaced pliable tongues 8, which tongues extend upwardly and inwardly and overlie the retaining cap 9, which is dished and provided with a washer 10, which engages the inner end of the spout 4; therefore it will be seen that when the spout is in inoperative position as shown in Figure 1, the spout is not only disposed within the can, but a closure is formed for the discharge opening.

When it is desired to place the spout 4 in position for use, the tongues 8 are bent outwardly, thereby releasing the cap 9 which is removed and after which the spout is removed from the powder can, reversed in position to the position shown in Figure 2, and the annular flange 5 placed in engagement with the ring 6, after which the pliable tongues 8 are bent over the flange 6 for securely holding the spout in position on the can and in a manner whereby powder may be easily discharged from the can. It will also be seen that the spout is held in inoperative position in a manner whereby it may be easily removed and again placed in the can for shipping and storing purposes.

From the above it will be seen that a powder can spout is provided, which is simple in construction, stored within the can when not in use and which spout may be easily and quickly removed from can and placed in operative position for use.

If so desired a cork 11 may be placed in the end of the spout 4, which cork may be utilized as a closure for the spout when it is in operative position, and when the spout is removed the cork is in position for use.

The invention having been set forth what is claimed as new and useful is:—

The combination with a powder can, of a reversible spout therefor, said spout being
5 disposed within the can and extending through an opening therein, an annular member secured to the can and surrounding the opening therein, a flange carried by the inner end of the spout and engaging the
10 annular member, a packing disc disposed on the annular flange and forming a closure for the inner end of the spout, a sec-

ond disc disposed on the packing disc and having a chamber therein, said packing disc being disposed within the chamber of the
15 second disc, and tongues carried by the annular member and overlying the second disc and forming means for holding the annular member, the annular flange, the disc and the second disc in close engagement
20 and the spout within the can.

In testimony whereof I have signed my name to this specification.

ALBERT S. MENSİK.