June 15, 1926. 1,589,012

A. E. LAYTON

CONTAINER FOR PULVERIZED MATERIALS

Original Filed May 8, 1924

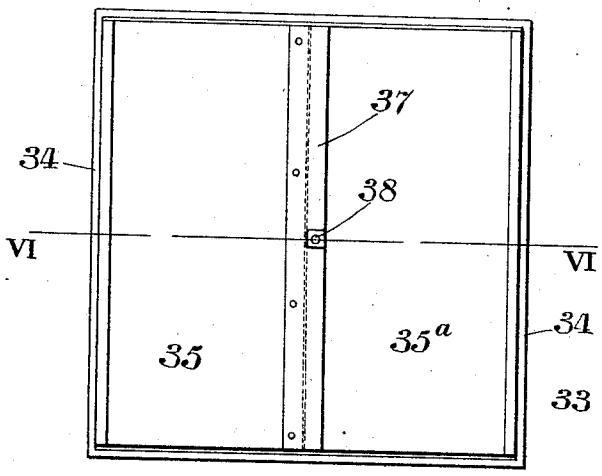


Fig.1.

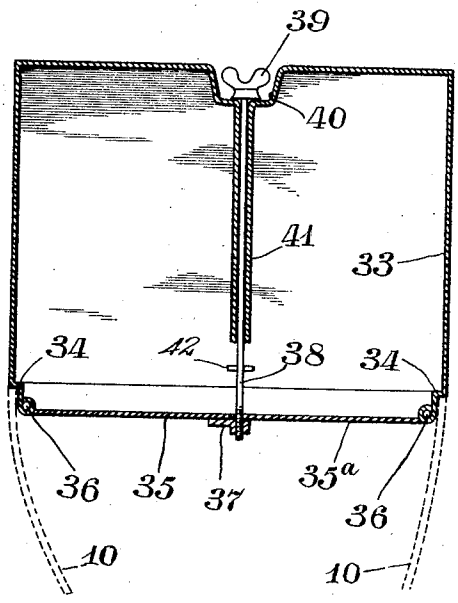


Fig.2.

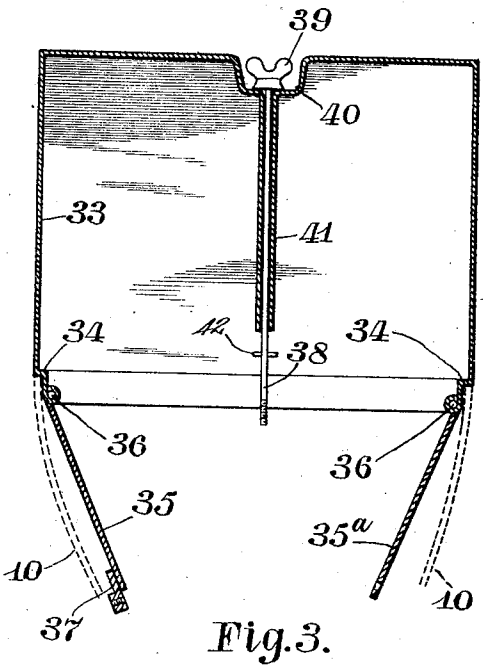


Fig.3.

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UNITED STATES PATENT OFFICE.

ADLASKA E. LAYTON, OF COLUMBUS, OHIO, ASSIGNOR OF ONE-HALF TO THOMAS F. CORWIN, OF COLUMBUS, OHIO.

CONTAINER FOR PULVERIZED MATERIALS.

Original application filed May 8, 1924, Serial No. 697,827. Divided and this application filed January 12, 1925. Serial No. 1,802.

The object of this invention is to provide an improved container especially for pulverized fuel such container being so constructed that it may be opened to discharge its contents into the hopper of a fuel feeder after application to such hopper thereby avoiding the raising of dust and the scattering and waste of the fuel either during the time the container is being applied or while the feeding operation is going on.

The invention is embodied in the example herein shown and described the features of novelty being finally claimed.

In the accompanying drawing—

Figure 1 is a plan view of the primary fuel container looking at the side having hinged covers.

Fig. 2 is a sectional view on the line II—II Fig. 1 showing the container applied to a hopper (shown in broken lines) with the covers closed.

Fig. 3 is a similar view showing the covers opened.

Referring to the views the character 33 designates a sheet metal box-like structure of rectangular form having a shouldered rim 34 opposite portions of which are provided with covers 35 and 35a hinged as at 36 one of which covers 35, is provided with a lip 37 to lap over the other. 38 is a bolt provided at one end with a finger piece 39 and having its other end threaded so that the bolt may be turned and the threaded end engaged with the lapping cover 35 or a nut thereon to hold the two together in closed position when the container has been filled with the fuel. The container is provided with a depression 40 to inclose the finger piece 39 so as to permit the container to rest squarely on the floor when in upright position and also to prevent bending the bolt near the head by contact with other things in handling or during transportation. The bottom of the container has attached to it a tube 41 to surround and guide the bolt into the screw hole in the lapping lip or into the nut fixed thereon to provide a more extended threaded engagement. A stop in the form of a cross pin 42 is provided, as shown, to prevent the bolt from falling out when the emptied container with released covers is turned to upright position.

In practice the container filled with the powdered fuel is placed and fitted on its shoulders in inverted position into the upper end of the hopper 10 as illustrated in connection with the broken lines Fig. 2 after which the covers are released by unscrewing the bolt, the covers falling to the position, as depicted in Fig. 3, to release the fuel into the hopper.

The container can be refilled by setting it up on horses so as to support the bottom above the floor to permit access to the head of the bolt for screwing it into the lapping cover 35 or the nut thereon for holding the covers closed.

The forms of the parts can be changed without departing from the gist of the invention as claimed.

The present application is a division of an application filed by me May 8, 1924, S. No. 697,827 pursuant to which was granted Letters Patent No. 1,526,800, dated February 17, 1925.

What I claim is:

1. A container for pulverized material having a closed permanent bottom, a cover hinged to the top of the container, and means extending through the bottom of the container to engage the cover to hold the same closed, said means being manipulable at the bottom to release the cover.

2. A container for pulverized material having a closed permanent bottom, a cover hinged to the top of the container and provided with threaded means, and a screw bolt extending through the bottom to engage the threaded means of the cover to hold the same closed, said bolt being manipulable at the bottom to release the cover.

3. A container for pulverized material having a closed permanent bottom, a cover hinged to the top of the container, means extending through the bottom of the container to engage the cover to hold the same closed, said means being manipulable at the bottom to release the cover and means within the container connected with the inner side of said bottom partially inclosing and guiding said manipulable means.

4. A container for pulverized material having a permanent closed bottom and a two-part hinged cover one part adapted to engage the other when closed, means extending through the bottom of the container to engage one of the parts of the cover to hold the two in closed position, said engag-

ing means operable at the bottom of the container.

5. A container for pulverized material having a permanent closed bottom and a movable hinged cover, a screw bolt extending through the bottom of the container to engage the same to hold it in closed position, a finger piece at the bottom of the container for manipulating said screw bolt and a depression in said bottom extending above the plane of support of the bottom of the container in which said finger piece is located.

6. A container for pulverized material having a closed permanent bottom, a cover hinged to the top of the container, means extending through the bottom of the container to engage the cover to hold the same closed, said means being manipulable at the bottom to release the cover and means consisting of a tube within the container connected with the inner side of said bottom partially inclosing and guiding said manipulable means and means for retaining said manipulable means in said tube.

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