Oct. 20, 1925. 1,558,128

P. WALSH

DUMP RECEPTACLE FOR DRILL CUTTING

Filed March 18, 1924

Fig. 1.

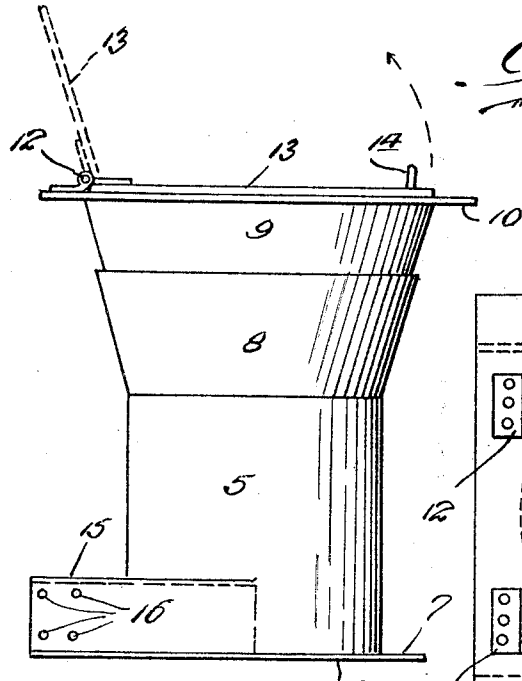


Fig. 2.

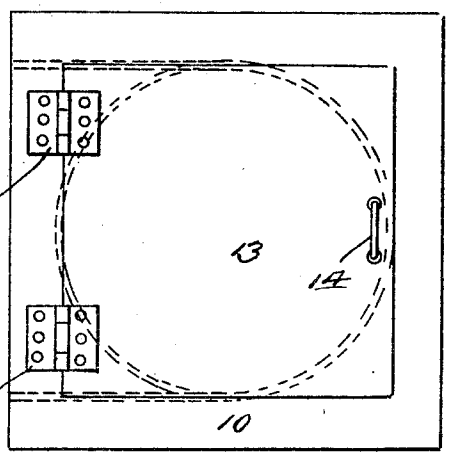


Fig. 3.

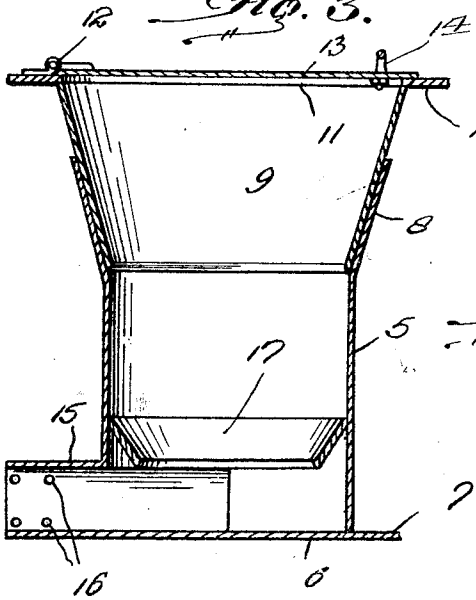
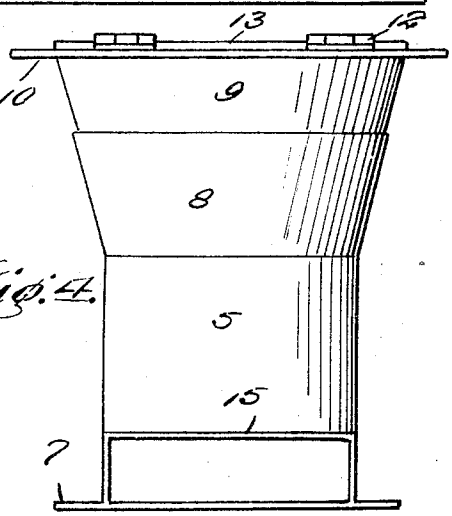


Fig. 4.



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UNITED STATES PATENT OFFICE.

PATRICK WALSH, OF BARTLESVILLE, OKLAHOMA.

DUMP RECEPTACLE FOR DRILL CUTTING.

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To all whom it may concern:

Be it known that I, PATRICK WALSH, a citizen of the United States, residing at Bartlesville, in the county of Washington and State of Oklahoma, have invented certain new and useful Improvements in Dump Receptacles for Drill Cutting, of which the following is a specification.

This invention relates to a dump receptacle for drill cuttings adapted to be used in connection with oil well or other drilling rigs, the object of the invention being to provide a receptacle of this kind into which the cuttings may be readily dumped for being conveyed in an effective manner to a desired point of disposal.

A specific object of the invention is to provide a receptacle into which the drill cuttings may be dumped and which embodies means for effectively preventing splashing of the cuttings and confining all of the same and leading it to a discharge spout.

Another object of the invention is to provide a dump receptacle of the above kind which is simple and durable in construction so as to provide a device of its kind which may be manufactured and marketed at a relatively low cost to provide a practical device of its kind.

Other objects will appear as the nature of the invention is better understood, and the same consists in the the novel form, combination, and arrangement of parts hereinafter more fully described, shown in the accompanying drawing, and claimed.

In the drawing, wherein like reference characters indicate corresponding parts throughout the several views:

Figure 1 is a side elevational view of a dump receptacle constructed in accordance with the present invention.

Figure 2 is a top plan view of the device shown in Figure 1.

Figure 3 is a central vertical sectional view thereof taken longitudinally of the device shown in Figure 1, and

Figure 4 is a rear elevational view of the device.

Referring more in detail to the drawing, the present invention embodies a vertical tubular hopper consisting of a lower cylindrical portion 5 that is closed at its bottom by means of a flat bottom wall 6 having a flange 7 projecting beyond the outer surface of the hopper portion 5 and preferably provided with openings for facilitating bolting or screwing of a device to a support such as an oil well drilling rig. The hopper further embodies an upper frusto conical outwardly flared portion 8 integral with the cylindrical portion 5 and having a frusto conical section 9 snugly fitted therein, the upper end of the section 9 having a flat top wall 10 provided with a relatively large central opening preferably of rectangular form as indicated at 11. Hinged at the back of the top wall 10 as at 12 is a flat closure 13 for the opening 11, and raising of this cover or lid is facilitated by means of a U-bolt handle 14 that is fastened to the free end of the cover or lid 13 as shown clearly in Figure 2. The margin of the cover 13 is rested upon the wall 10 adjacent the opening 11 when in closed position. By this forming of the hopper in separable sections, the device may be more readily manufactured and assembled as well as taken apart for repairs or cleaning, also to adjust difference between the seat or base of dump and derrick floor.

The cylindrical lower hopper portion 5 is formed at its lower end and at its rear side to provide a rearwardly extending spout member 15 that is preferably of rectangular form as shown in Figure 4 and the bottom wall of which is co-extensive and integral with the bottom wall 6 for insuring outward flow of the cuttings from the hopper without obstruction. The walls of this spout 15 are provided with suitable openings or apertures as at 16 for facilitating securing of further spout sections thereto if found necessary or desirable, and disposed within the lower hopper portion 5 and rigidly secured to the latter in any desired manner so as to assume a position above the level of the spout 15 is a relatively short frusto conical ring 17, the major lower portion of which is in spaced relation to the hopper portion 5 so as to form a baffle for preventing splashing of the cuttings as they are deposited into the receptacle.

From the foregoing description, it is believed that the construction and operation as well as the advantages of the present invention will be readily understood and appreciated by those skilled in the art.

What I claim as new is:

A dump receptacle for drill cuttings comprising a hopper having a flared upper end and formed with an outlet spout, the bottom of the spout and the hopper being co-

extensive, said hopper including a lower section embodying an upper flared portion and a lower cylindrical portion, a flared section fitting within the flared upper portion of the lower section, a closure for the upper end of the flared section, and a tapered baffle ring fixed within the lower portion of the hopper above the plane of the outlet spout for preventing splashing of the cuttings deposited into the receptacle.

In testimony whereof I affix my signature hereto.

PATRICK WALSH.