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L. A. GRIFFIN.
TARGET BOX.
FILED JUNE 10, 1921.

1,438,996.

Fig. 1

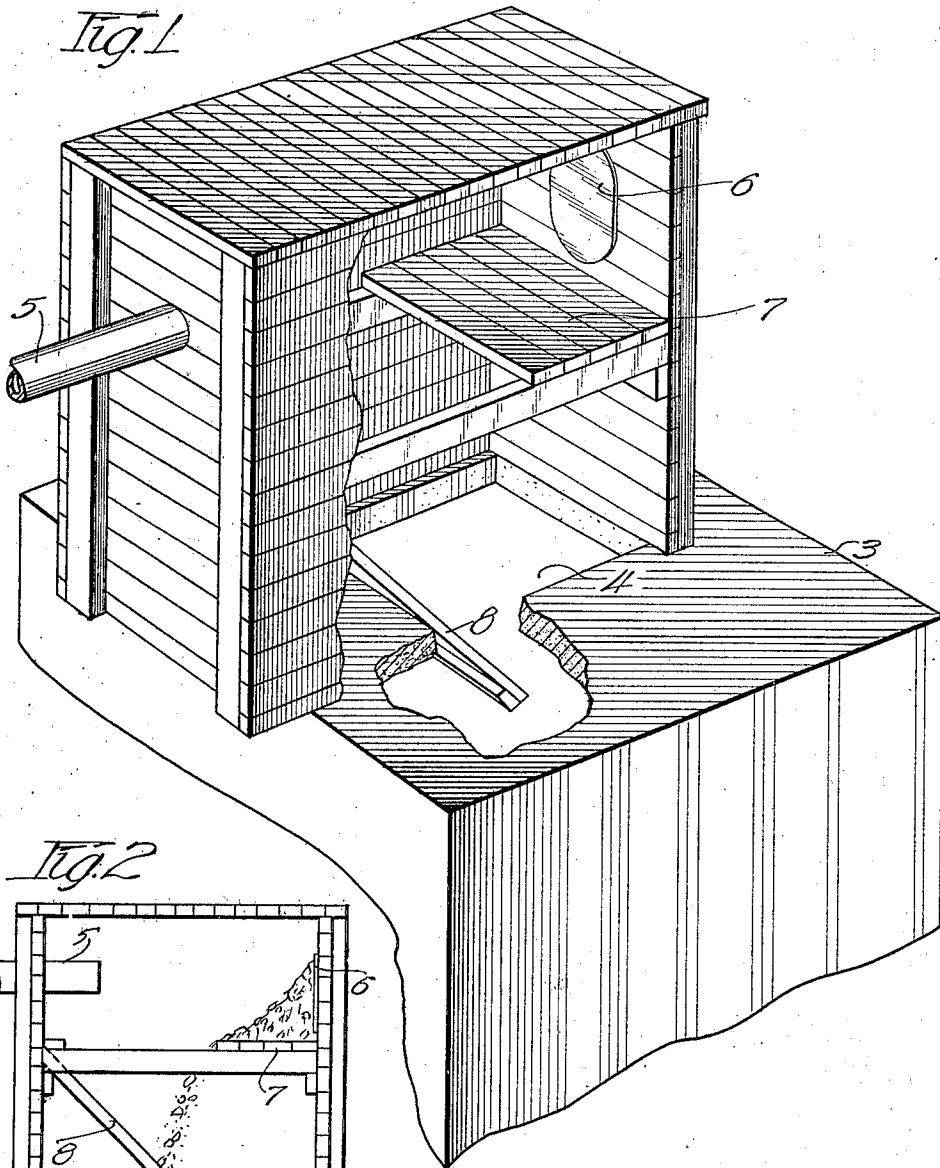
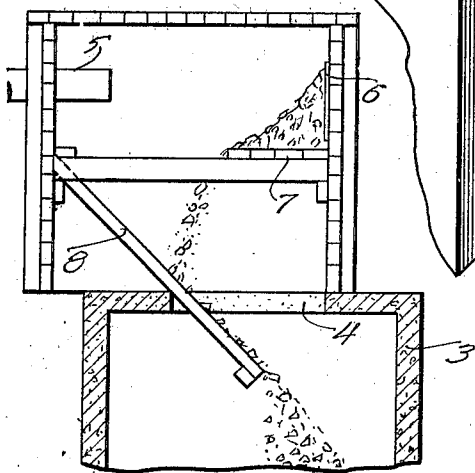


Fig. 2



Inventor
Lorne A. Griffin
William Bradbury,
See + McCaleb, Atty's

UNITED STATES PATENT OFFICE.

LORNE A. GRIFFIN, OF EVANSTON, ILLINOIS, ASSIGNOR TO CONVEYORS CORPORATION OF AMERICA, OF CHICAGO, ILLINOIS, A CORPORATION OF NEW YORK.

TARGET BOX.

Application filed June 10, 1921. Serial No. 476,443.

To all whom it may concern:

Be it known that I, LORNE A. GRIFFIN, a citizen of the United States, and resident of Evanston, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Target Boxes, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to an improved target box for use in connection with tanks or receptacles of the type in which ashes are deposited by the discharge conduits of ash conveyor systems. The object of the invention is to provide a target box comprising means for causing the ashes, which are discharged into the target box with more or less violence, to settle lightly down into the tank or receptacle so that the ashes may be easily removed from the tank or receptacle when occasion requires. I have found that the ashes deposited in the ordinary type of ash receptacle are thrown down into the same with more or less violence. Since the ashes are usually more or less wet when deposited in the receptacle, it is found that they tend to form a hard rock-like substance, which can be disintegrated and removed only with great difficulty. My invention reduces this kind of trouble to a minimum.

In the accompanying drawing illustrating my invention, Figure 1 is a perspective with certain parts broken away, illustrating the target box of my invention in operative position upon an ash tank, and

Figure 2 is a vertical sectional view of the parts shown in Figure 1.

Referring to the drawing, at 3 I have illustrated a tank or ash receptacle which may be formed of any suitable material, but is here shown as being constructed of concrete. The tank has a flat top in which is provided a square or rectangular opening 4. The sides, ends, and top of the target box herein shown are formed of matched boards, preferably oak, the box being open at the bottom and resting upon the top of the tank with the open side of the box registering with the opening 4. The box is retained in position in any suitable manner.

The ash conveyor discharge conduit 5 enters the target box horizontally at the upper central portion of one of its end walls. Carried upon the inner surface of the end

wall which lies opposite the discharge conduit is an impact plate 6, which is formed of hardened steel or other material capable of resisting the abrasive action of the ashes which are thrown violently against it when the ash conveyor is in operation. Plate 6 is held in position by bolts or other suitable means not shown.

Located below the plate 6 is a shelf 7, the several boards of the shelf being supported by cleats carried by the side and end walls of the box. Forming part of the box is a baffle 8, which slants downwardly from the box end wall through which the conveyor discharge conduit extends, the baffle extending through the tank opening 4, and terminating within the tank at a point below the shelf 7.

In the operation of the ash conveyor system, the ashes are discharged into the target box and tend to pile up on the shelf 7 substantially as illustrated in Figure 2. The quantity of ashes which can accumulate upon the shelf, is, of course, limited, the excess ashes sliding off of the shelf to the inclined baffle 8, which guides them downwardly into the tank. The ashes slipping off the lower end of the baffle drop into the tank with very little velocity, and as a result they do not cake within the bottom of the tank, notwithstanding the fact that they may contain more or less moisture.

While I have described my invention as it is applied to a target box constructed of wood, it is to be understood that other suitable materials may be used without in any way departing from my invention.

Having thus described my invention, what I claim is new and desire to secure by Letters Patent of the United States is:

1. In combination with an ash receptacle having an opening in the top thereof, an open bottomed target box carried by the receptacle and disposed over said opening, an ash conveyor discharge conduit entering said box horizontally through one end of the box and adapted to discharge ashes toward and against the opposite end of the box, a horizontal shelf carried within the box and located adjacent said last-mentioned end wall, said shelf extending entirely across the box in a lateral direction and partially across the box in a longitudinal direction, and a baffle which slants downwardly from the first-mentioned end wall and terminates within

the tank at a point beneath said shelf, the upper end of the baffle being located beneath the point where the aforesaid discharge conduit enters the target box.

5 2. In combination with an ash receptacle having an opening in the top thereof, an open bottomed target box disposed over said opening, an ash conveyor discharge conduit entering the target box through one wall
10 thereof, and adapted to discharge ashes toward and against the opposite wall thereof, a horizontal shelf disposed adjacent said last-mentioned wall and beneath the line in which ashes are discharged by said conduit,
15 and a baffle slanting downwardly from said first-mentioned wall to a point within the ash receptacle and beneath said shelf, the upper end of said baffle being located beneath the discharge conduit.

3. A target box of the class described comprising an open bottomed box, an ash conveyor discharge conduit entering said box through an opening in the upper portion of one of its end walls and adapted to discharge ashes toward and against the opposite end wall of the box, a horizontal shelf disposed adjacent said last-mentioned end wall and below said discharge conduit, and a baffle slanting downwardly from the first mentioned end wall to a point beneath said shelf, the upper portion of said baffle being located below said discharge conduit.

In witness whereof I hereunto subscribe my name this 2nd day of June, 1921.

LORNE A. GRIFFIN.

Witnesses:

W. L. LOAT,
GUY S. HAMILTON.