

(No Model.)

J. W. VAN DYKE.

MEANS OF REMOVING FILLED CANS FROM FILLING TABLES.

No. 261,571.

Patented July 25, 1882.

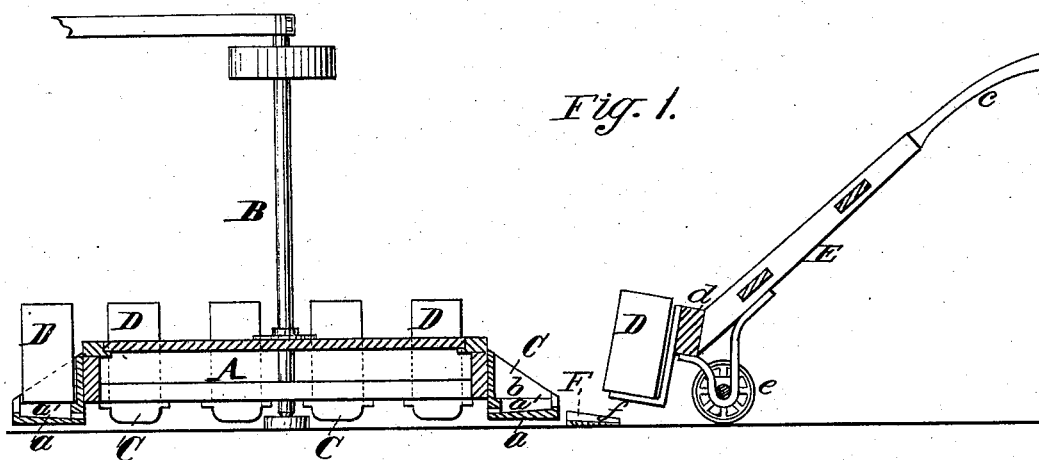


Fig. 1.

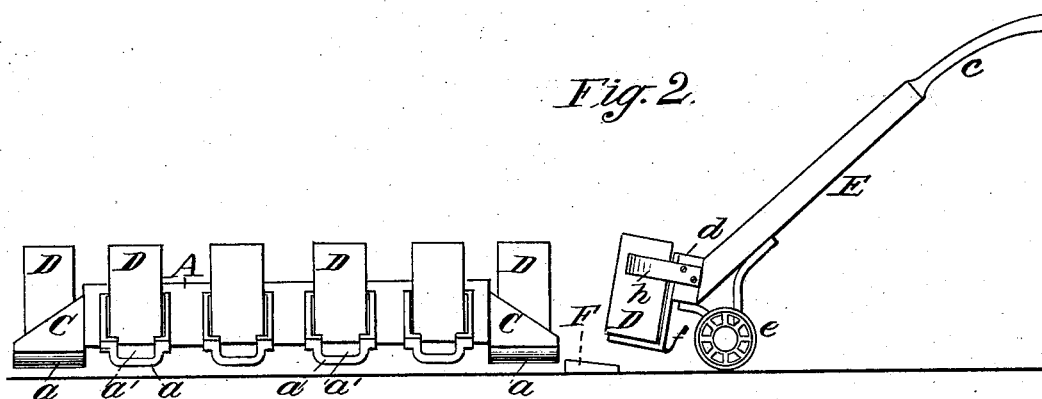


Fig. 2.

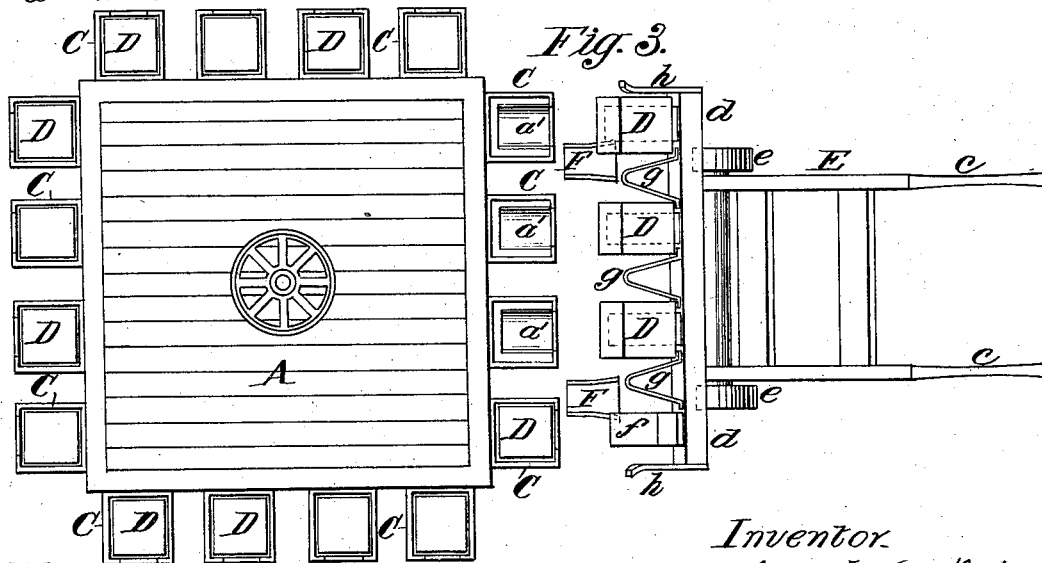


Fig. 3.

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UNITED STATES PATENT OFFICE.

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MEANS OF REMOVING FILLED CANS FROM FILLING-TABLES.

SPECIFICATION forming part of Letters Patent No. 261,571, dated July 25, 1882.

Application filed April 22, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. VAN DYKE, of Brooklyn, E. D., in the county of Kings and State of New York, have invented certain Improvements in the Means of Removing Filled Cans from Filling-Tables, of which the following is a specification.

Ordinarily it is customary in filling sheet-metal cans with paint or other substances or materials to place the said cans upon a suitable table during said filling operation, and thereafter to remove the same by hand, such removal being slow and laborious, and consequently expensive.

The object of my invention is to facilitate this removal by avoiding the necessity of handling the cans separately.

My said invention comprises certain novel means and combination of parts whereby this is effectually secured.

Figure 1 is a vertical sectional view, representing an apparatus included in my said invention. Fig. 2 is a side view of the same. Fig. 3 is a plan view of the same.

A is a rectangular horizontal table, supported upon a central vertical post, B, upon or around which it may be rotated. Attached to each of the four edges of the table A are brackets C, placed preferably at the circumference of the table, as represented in Fig. 1; but which may, when required, be formed or constructed upon the upper surface of the said table, at the edges thereof. These brackets are constructed with bottom plates, *a*, and sides *b*, and in size and proportions are adapted to receive each a single can, as shown at D. The bottom *a* of each bracket C has in it a cavity or recess, *a'*, the purpose and function of which will hereinafter appear. When preferred, the table A and the brackets C may be formed in cast metal, cast in one piece, the essential feature being that provision is made for retaining the cans singly at the edges of the table to the cavities *a'* underneath the same. It will be perceived that by thrusting a flat plate under any one of the cans D the same may be readily lifted from its place and carried away, and in like manner if an implement be provided having a series of such plates capable of being thrust simultaneously under the cans

and under the side of the table A that all cans at the side may be simultaneously removed, and in like manner any proportion of cans at any of the said sides may be removed at one and the same time.

E is a peculiarly-constructed truck, designed for the purpose of removing the cans from the table A upon the principle just hereinbefore indicated. This truck has the usual handles, *c*, and cross-bars *d*; also the rollers or wheels *e*. These constitute the common and well-known component parts of a truck; but in lieu of the parts usually connected with the handles, cross-bar, and wheels aforesaid, there are attached to the cross-bar *d* blades or plates *f*, which may be either flat plates, as represented in Fig. 3, or may consist of a series of prongs arranged in the same plane. These plates *f* correspond in number to the number of cans which it is desired to remove from the table A at one operation, and are at such distances apart and so arranged as to be coincident with the cavities *a'* underneath and an equivalent number of cans when the said cans are arranged in position on the table, as just hereinbefore explained.

F are tracks or guides arranged at a lower level than the bottoms of the brackets C, and which are so placed that when the truck E is moved toward the table A for the purpose of removing the desired number of cans therefrom at one operation the wheels or rollers *e* of the said truck, running upon the guides F, will so direct the truck that the plates *f* will pass each into a coincident one of the cavities *a'*, and consequently underneath one of the cans D, whereupon, by depressing the handles of the truck, and consequently raising the plates *f*, the cans will be lifted from their places and thereby transferred to the truck, which latter is then moved away to any desired place, and by the elevation of the handles, at the will of the operator, deposits the cans upon the floor.

In order that the cans may not tilt sidewise upon the plates *f*, the front of the cross-bars *d* is provided with the forwardly-projecting studs *g*, which extend between the cans to retain them in the requisite position and relation to each other upon the truck. To prevent the cans at the end of the truck from falling off,

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similar studs, *h*, project forward from the ends of the cross-bar *d*.

It is to be observed that in place of a table supported upon a central shaft, *B*, and capable of rotation, as hereinbefore set forth, a fixed table having but one edge fitted with the supports for holding the cams when the blades *f* are thrust underneath may be employed.

What I claim as my invention is—

1. The table *A*, constructed with brackets or supports having the cavities *a'*, whereby provision is made for the simultaneous removal of a number of cans from said table by the insertion of plates underneath the same, substantially as and for the purpose herein set forth.
2. The combination, with a table, *A*, having

brackets or supports constructed with cavities *a'*, of a series of plates, *f*, attached to a cross-bar, *d*, whereby a number of cans may be removed at one and the same time from the said table, substantially as and for the purpose herein set forth.

3. The combination of the truck *E*, constructed with a series of plates, *f*, the guides or tracks *F*, and a table constructed with brackets or supports, each having a bottom cavity, *a'*, all substantially as and for the purpose herein set forth.

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Witnesses:

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