(No Model.)

M. HERZBERG & S. T. WHITAKER.

PORTABLE STORAGE AND DELIVERY FIXTURE.

No. 468,516. Patented Feb. 9, 1892.

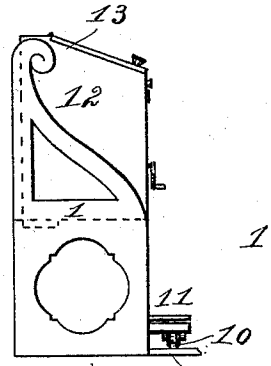

Fig. 1.

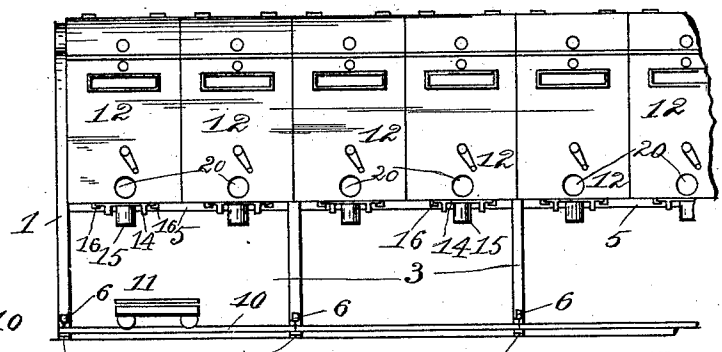

Fig. 2.

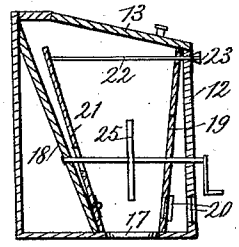

Fig. 12.

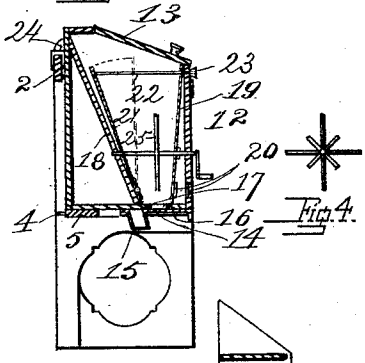

Fig. 3.

Fig. 4.

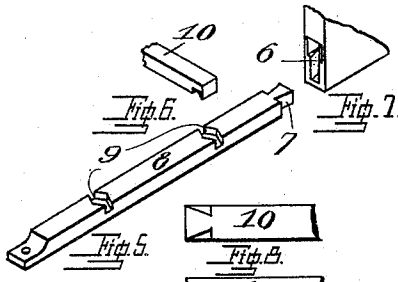

Fig. 6.

Fig. 7.

Fig. 5.

Fig. 8.

Fig. 9.

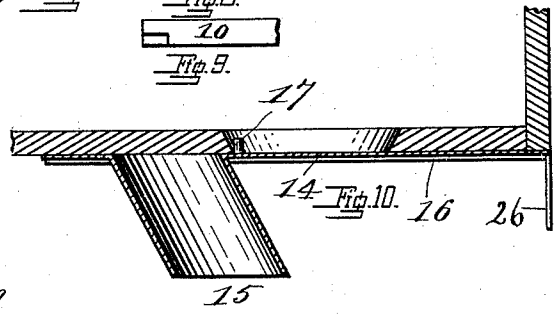

Fig. 10.

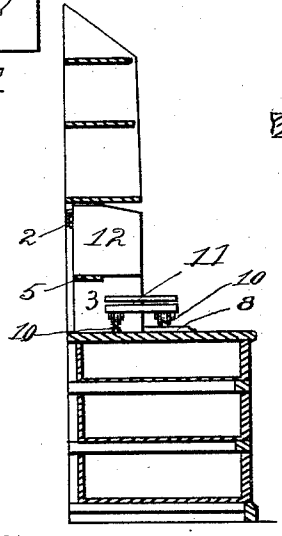

Fig. 11.

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UNITED STATES PATENT OFFICE.

MORRIS HERZBERG, OF CHAMBERS COUNTY, ALABAMA, AND SAMUEL T. WHITAKER, OF WEST POINT, GEORGIA.

PORTABLE STORAGE AND DELIVERY FIXTURE.

SPECIFICATION forming part of Letters Patent No. 468,516, dated February 9, 1892.

Application filed August 17, 1891. Serial No. 402,943. (No model.)

To all whom it may concern:

Be it known that we, MORRIS HERZBERG, of Chambers county, in the State of Alabama, and SAMUEL T. WHITAKER, of West Point, in the county of Troup and State of Georgia, have invented certain new and useful Improvements in Portable Storage and Delivery Fixtures; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, and to figures of reference marked thereon, which form a part of this specification.

This invention relates, as above stated, to storage and delivery apparatus, said device consisting of means whereby merchandise may be stored and at the will of the operator be delivered into the scale-pan or other receptacle, and means whereby several operations may be performed aiding such functions and rendering the device complete and convenient of operation, the details of all of which are hereinafter fully set forth.

In the accompanying drawings, Figure 1 is an end elevation of the device, showing an outside or end bracket, a reservoir, and the car, and a portion of the track therefor. Fig. 2 is a front view of a part of a series of reservoirs, further showing the elements shown in Fig. 1, and, in addition thereto, showing several details of the reservoir. Fig. 3 is a vertical section of one of the reservoirs, showing the interior construction. Fig. 4 is a detail of the agitator. Fig. 5 is a perspective view of one of the rail-sleepers. Fig. 6 is a detail of the end of the rail. Fig. 7 is a perspective view of a portion of one of the brackets, (end or intermediate,) showing the socket for the end of the sleeper therein. Figs. 8 and 9 are detail views of the ends of the rails. Fig. 10 is an enlarged sectional view of the hopper bottom and gate carrying the chute. Fig. 11 is a cross-sectional view of the device and a few shelves and drawers, showing a convenient and desirable association thereof. Fig. 12 is a detail view showing the casing and the several partitions arranged therein.

In the figures like reference-marks are employed in the designation of corresponding elements of construction in all the views.

The end pieces or brackets 1 may be of any form, but are preferably of the form shown in Fig. 1, the same being somewhat tasty and adapted to the purpose, and are preferably of metal. A longitudinally-extending bar 2 is secured to said end pieces 1, and extends between and holds same stationary. Intermediate brackets 3 are employed, one of which is shown in side elevation in Fig. 3, and are placed at a distance apart equal to the width of two reservoirs. In the inner side of each of the end brackets 1 and in both sides of the intermediate brackets 3 are dovetailed or otherwise shaped grooves 4, into which the correspondingly-tenoned ends of the bars 5 are inserted, which bars serve to further strengthen the whole structure and also as supports for the reservoirs. In the lower front corner of each of the brackets 1 and 3 is a dovetailed socket 6, into which a dovetail 7 on the end of the ties 8 is inserted, the opposite ends of the said ties being screwed to the top board of the shelf-base, as shown in Fig. 11. In each of the ties set in the sockets in the brackets 1, is a seat 9 for the rail 10, which is dovetailed to fit said seat, while in each of the ties secured to the brackets 3 two of these seats are provided, as is obviously possible, inasmuch as these brackets 3 are much narrower at their bases. A car 11 upon wheels traverses the track thus formed and may carry bags, scales, measures, or any other things desired.

The reservoir 12, of which there may be as many as is desired, is constructed of any material suitable in the premises. It consists of a casing composed of sides, a bottom, and a hinged cover 13. Within the casing the inclined partition 18 is secured, with its upper edge resting against the back and its lower edge upon the bottom of the casing, somewhat nearer the front than the back. To the lower edge of the partition 18 an auxiliary partition 21 is hinged at its lower edge. A rod 22 is secured to the upper part of the auxiliary partition and extends to the exterior of the casing, where it is provided with a handle 23. The object of the rod is to swing

the auxiliary partition back and forth on its hinges, so that any material that might be packed against the same can be thrown to the bottom of the receptacle, and also to regulate the capacity of the reservoir. Within the front part of the casing a second inclined auxiliary partition 19 is secured, with its upper edge resting against the front of the casing and the lower edge on the bottom a short distance from the front edge.

In the partition 18 and the front of the casing the shaft of the agitator 25 is journaled. This shaft passes through suitable openings in the auxiliary partitions, and has secured to its outer end a crank for its rotation. The object of the agitator is obvious.

Perforations 20 are formed in the lower portions of the partition 19 and the front of the casing, and which are glazed, (see Fig. 3,) so that the condition of the interior of the reservoir can be ascertained.

The bottom of the casing is perforated between the lower ends of the auxiliary partitions, the edge of the perforation being beveled to allow a free passage past the same. To the under side of the bottom the guides 16 are secured, by which the slide 14 is carried. The slide is perforated at its rear end, the opening being the same size as that in the bottom of the casing, and is provided with a spout 15. To limit the movement of the slide a pin 17 projects from its upper surface into the perforation in the bottom of the casing. The pin 17 serves, also, to agitate any material that has become packed in the opening by being drawn through such material by the movement of the slide. The slide is provided with a handle 26 to aid in its withdrawal.

Hooks 24 are secured to the backs of the reservoirs, so that they can be hung in place upon the bar 2, and be readily removed from the same when desired.

The operation of the device is as follows: The reservoirs having been previously filled, it is desired to withdraw a portion of the merchandise from the same. The receptacle that is to receive it is placed upon a car and by means of the latter is placed beneath the spout of the particular reservoir the contents of which it is desired to withdraw. The slide is then drawn out until its perforation registers with that in the bottom of the casing. After a sufficient quantity has filled into the receptacle the opening is closed and the car run to a convenient place for weighing, wrapping, &c.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

In a device of the class specified, the combination of the casing, the inclined partition placed within the casing with its upper edge resting on the back and its lower edge on the bottom near the front, the auxiliary partition hinged to the lower edge of the said inclined partition, the rod secured to the upper part of the said auxiliary partition and passing to the exterior of the casing, the auxiliary partition placed within the casing with its upper edge resting against the front and its lower edge upon the bottom a short distance from the front edge of the same, the bottom of the casing being perforated between the lower ends of the auxiliary partitions, and the perforated slide moving in guides beneath the bottom of the casing, substantially as described.

In testimony whereof we hereunto affix our signatures in presence of two witnesses.

MORRIS HERZBERG.
SAMUEL T. WHITAKER.

Witnesses:
PHIL LANIER,
J. C. MCKEMIE.