

Nov. 15, 1927.

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1,649,065

SERVICE CART

Filed Aug. 24, 1926

2 Sheets-Sheet 1

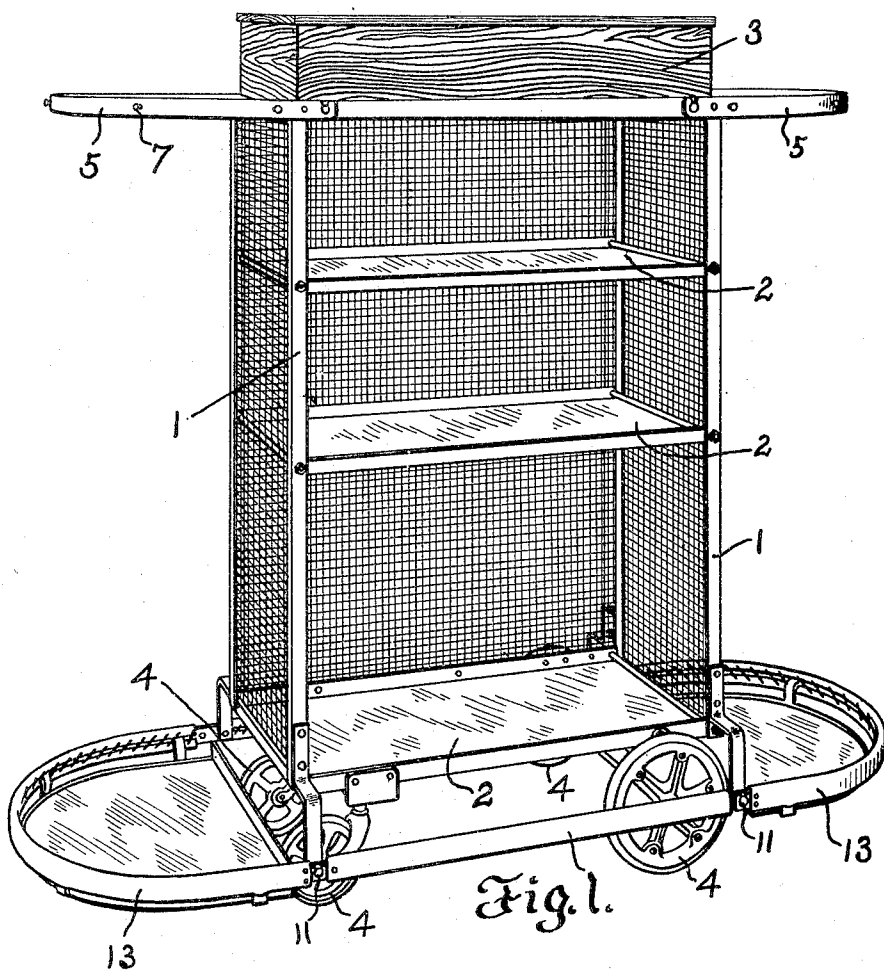


Fig. 1.

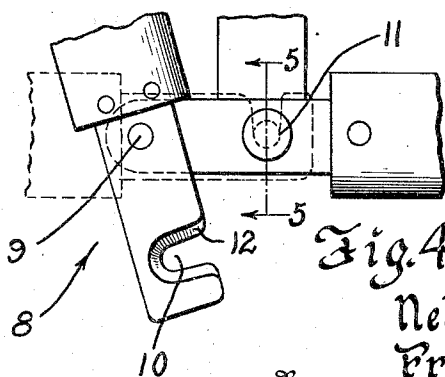


Fig. 4.

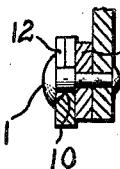


Fig. 5.

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2 Sheets-Sheet 2

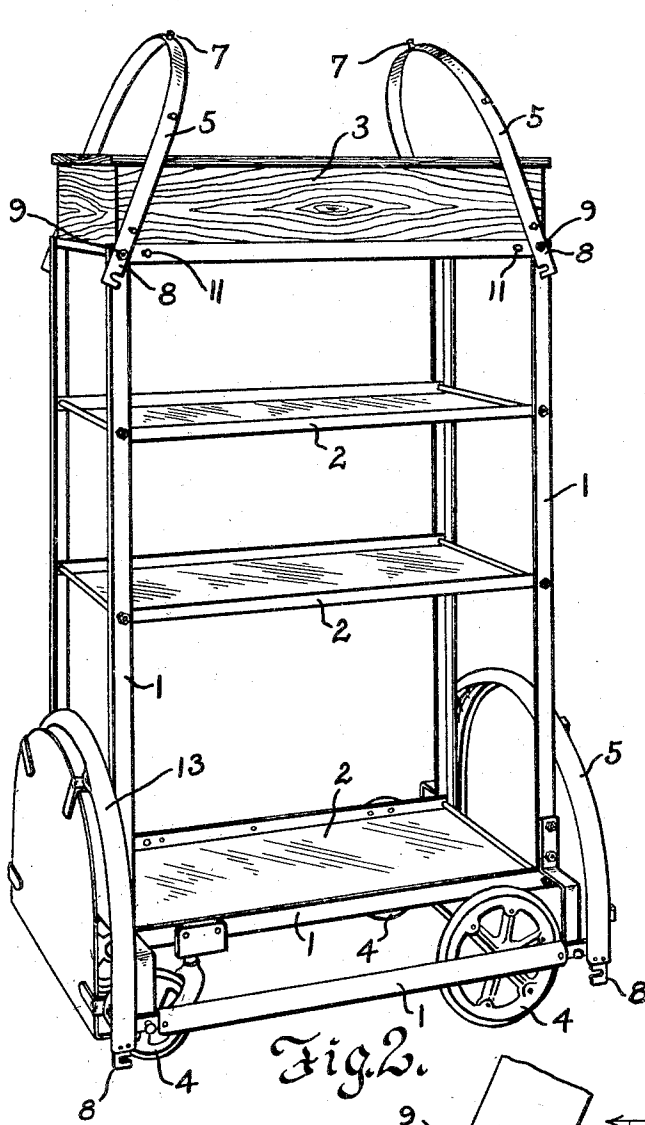


Fig. 2.

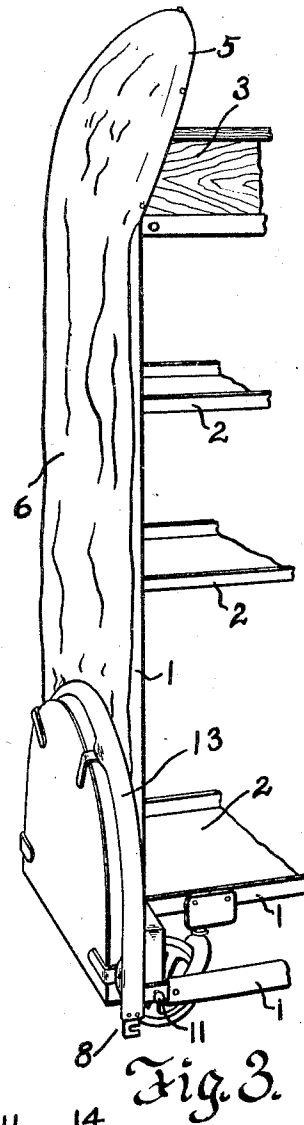


Fig. 3.

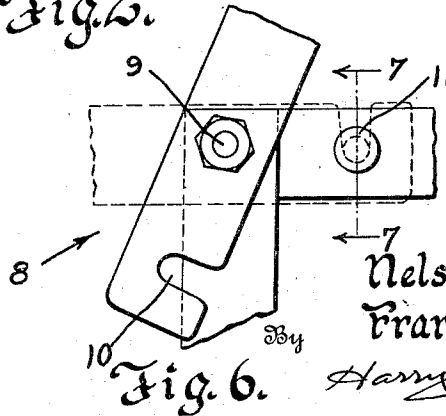


Fig. 6.

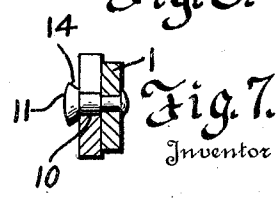


Fig. 7.

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UNITED STATES PATENT OFFICE.

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SERVICE CART.

Application filed August 24, 1926. Serial No. 131,222.

This invention relates to improvements in service carts or wagons and has particular reference to improved means for folding or stowing the bag receptacles when not in use.

5 The principal object of the invention is to provide improved bag supports which may be securely held in operative position and readily displaced to a compact stowed position.

10 Another object of the invention is to provide a hinge and locking device for the bag supports.

Another object of the invention is to provide simple, inexpensive and efficient means 15 for holding the bags both in operative and in stowed position.

Other objects and advantages of the invention will be apparent from the following description taken in connection with the accompanying drawings, in which the preferred form of the invention only is shown by way of illustration, it being understood that many changes in construction and arrangement of parts may be made without 25 departing from the spirit of the invention or exceeding the scope of the accompanying claims. Therefore, we do not wish to be limited to the exact detail and arrangement of parts shown and described.

30 Referring to the drawings in which similar characters are used to denote similar parts throughout:

Figure 1 shows a perspective view of the invention, the supports being shown extended and the bags removed therefrom;

35 Figure 2 is a similar view with the supports shown in stowed position;

Figure 3 is a fragmentary perspective view similar to Figure 2, with the bag in 40 stowed position;

Figure 4 is a front view of an enlarged detail of the hinge and lock for the lower supports;

45 Figure 5 is a section on line 5—5 of Figure 4;

Figure 6 is a front view of an enlarged detail of the hinge and lock for the upper bag support;

50 Figure 7 is a section on line 7—7 of Figure 6.

Service carts or wagons of the type shown are used in large numbers in hotels and are known as maid service wagons, they are used to carry the supply of bed linen, towels,

soaps, supplies, etc., and have bag receptacles at the ends for carrying the soiled linen and towels, etc., removed from the rooms. Stowage space in such hotels is limited and it is, therefore, desirable that the wagons be made to stow compactly, especially where 60 there are several to be stowed. It is also essential that the stowage arrangements be simple and easily operated by inexperienced operators without dismantling the parts and without injuring or displacing the hanging 65 bags at the ends. With these objects in view we have devised the present invention.

Referring to the drawings, the body of the wagon comprises the frame work 1, the shelves 2 and the tray 3. The body is carried on the rollers or wheels 4. At each end 70 near the top of the body are the bag supports or platforms 5 carrying the bags 6, shown in Figure 3. These bags 6 are secured to the platforms 5 by the pins 7 75 which fit into eyelets on the bags 6. The bags are thus easily put on and removed. At the bottom of the body are other platforms 13 above which the bags 6 hang but are not connected thereto. The platforms 80 5 and 13 extend beyond the body of the wagon and are in the way when the wagon is stowed and not in use.

We provide means for swinging the platforms 5 and 13 out of the way when not in 85 use without removing the bags 6, as shown in Figure 3. This is done by providing extension lock hinges 8 in both the upper platforms 5 and the lower platforms 13. These hinges comprise the pivot 9 (see Figures 4 90 and 6), the extension slot 10, and the extension slot lock or bolt 11 on the frame of the wagon. The frame of the platforms 5 and 13 being pivoted to the frame of the wagon by the pivot bolts 9 allows the plat- 95 forms to be swung up, the top platforms overlying the tray 3, and the bottom platforms stowing against the frame of the body. The bag 6 being made of soft fabric folds and stows up snugly against the body 100 when the platforms are swung up on the pivots 9. As the bags 6 are used for the soiled linen and bed clothes, etc., they carry a considerable and heavy load. Hence the upper platform supports must be sturdy and 105 rigid when in use. This we accomplish by means of the fulcrum extension slot 10 in the frame of the platform which registers with

the headed retaining bolt 11 on the frame of the wagon; the thickness of the extension member carrying the slot 10 is such as to wedge in tightly under the head of the retaining bolt 11, the edges of the slot 10 being chamfered or made wedge shape, as at 12, Figure 5, to provide a cam action when the parts are brought together, thus insuring an exceedingly tight fit because of the leverage exerted by the platform acting about the pivot 9 as a center. If desired the under head of the pin 11 may be bevelled as at 14, Figure 7, instead of chamfering the edge of the slot 10. The slot 10 being located at a distance from the pivot 9 insures that the heavier the bags 6 are loaded, the tighter will the platforms be held, and the more secure will be the joint. This applies also to the load carried by the lower platforms 13. Our hinge is thus a cam lever joint operable by the leverage of the platforms themselves by a simple movement of the hand or foot, as the case may be. To stow the bags it is only necessary to push up the platforms; to place the bags and platforms in use it is only necessary to push down the platforms until the lock is engaged, operations that even the most inexperienced maid will comprehend at once. The upper platforms 5 will be operated by the hand and the lower platforms 13 will usually be operated by the foot.

From the foregoing description of opera-

tion and construction it will be seen that we have provided simple, inexpensive and efficient means for carrying out the objects of the invention.

Having described our invention, we claim:

1. In a device of the character described, a wagon body, bag supports extending beyond the body, bags suspended from the supports, a second set of supports extending beyond the body, pivotal means connecting all the supports and the body, cam extensions on the supports beyond the pivots, cam locks on the wagon adapted to engage the cam extensions when the supports are in extended position, the bag supports being adapted to be swung over the body to stow the bags against the body and the second supports to be swung up against the bag when stowed.

2. In a device of the character described, a wagon body, bag supports extending beyond the body, bags suspended from the supports, a second set of supports extending beyond the body, pivotal means connecting all the supports and the body, extensions on the supports beyond the pivots, locking means on the wagon adapted to engage the extensions when the supports are in extended position, the bag supports being adapted to be swung over the body to stow the bags against the body and the second supports to be swung up against the bag when stowed.

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