Oct. 9, 1951 H. J. SMITH 2,571,071

CABINET CLOSURE LOCKING MEANS

Filed Dec. 18, 1947

Fig. 5.

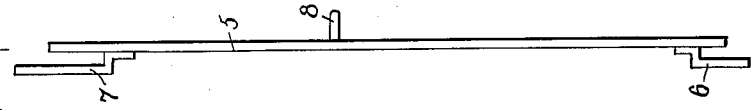


Fig. 3.

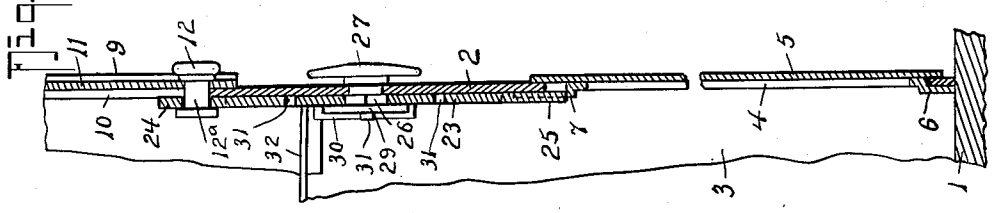


Fig. 2.

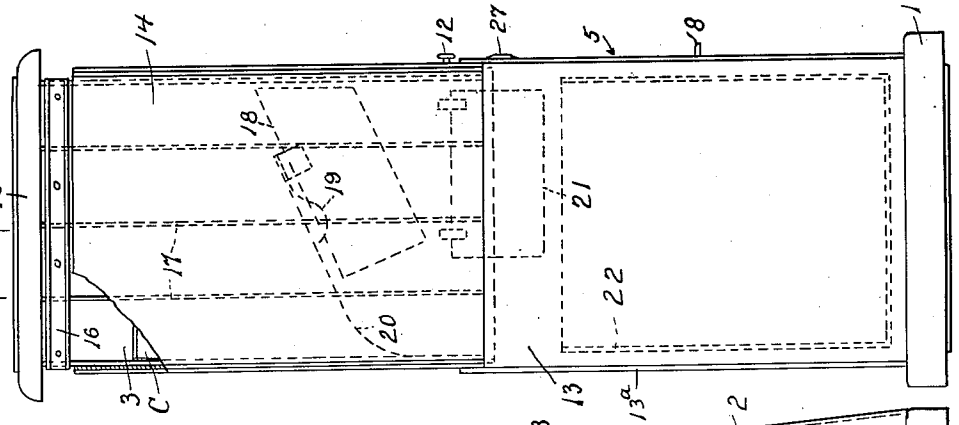


Fig. 1.

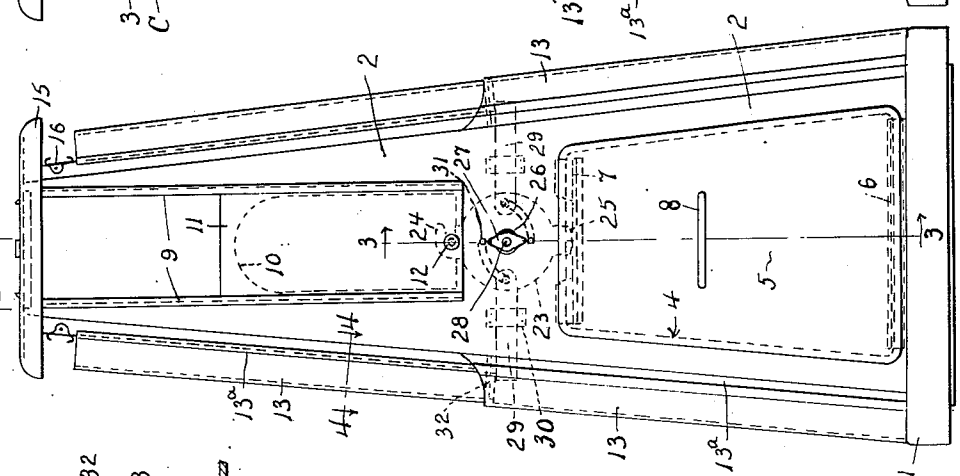
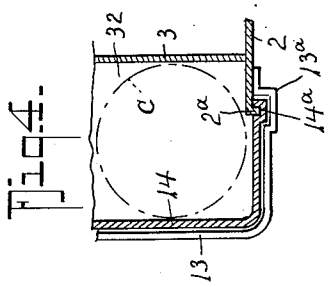


Fig. 4.



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CABINET CLOSURE LOCKING MEANS

Harvey J. Smith, Greensboro, N. C.

Application December 18, 1947, Serial No. 792,372

1 Claim. (Cl. 312—217)

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My invention relates to racks of the kind disclosed in and covered by my U. S. Letters Patent No. 2,320,159 issued May 25, 1943, No. 2,343,248 issued March 7, 1944, and No. 2,432,455 issued December 9, 1947.

The present invention seeks to provide a simple, inexpensive cabinet having slidable doors and a removable door, the slidable doors which cover the can stacks being slidable into and out of wells while the slidable door which covers the entrance for cans is slidable in tracks or guides parallel to the opening it covers, a single locking mechanism of a simplified construction serving to secure all doors in the closed position.

To the attainment of the aforesaid objects and ends invention still further resides in the novel details of construction, combination and arrangement of parts, all of which will be first fully described in the following detailed description, and then be particularly pointed out in the appended claim, reference being had to the accompanying drawing, in which:

Fig. 1 is a front elevation depicting my invention.

Fig. 2 is a side elevation of the same, parts being broken away.

Fig. 3 is an enlarged detail section on the line 3—3 of Fig. 1.

Fig. 4 is an enlarged detail section on the line 4—4 of Fig. 1.

Fig. 5 is an enlarged side elevation of the door for closing the can collection compartment.

In the drawing in which like numerals and letters of reference indicate like parts in all the figures, 1 is the base, 2 the front and back walls, 3 the side walls and 15 the top of the structure which comprises my invention.

The front wall has two openings, one 4 through which the can-collecting receptacle 22 is inserted and removed, and the other 10 is the opening for access to the can chute 18 and oil receiver 21. The opening 4 is closable by a removable door 5 which has a groove-forming element 6 along its bottom and a similar element 7 along its upper edge, these elements being so proportioned that, by placing the upper element 7 behind the wall 2 and lifting the door up until element 6 clears the wall along the lower margin of the opening 4 and then dropping the door, the door will not fall out. The element 7 is cut away along its top so as not to interfere with the proper operation of the locking device hereinafter described. The door 5 has a handle 8 by which it may be manipulated. The door 11 slides up and down in guides 9.

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A knob 12 having a shank 12^a passes through the door and constitutes a means to cooperate with the door locking device.

Wells 13 are provided on the sides of the apparatus into which sliding doors or covers 14 may be contained when not in use. The doors 14 have guides 14^a which run on the guide ways 2^a (Fig. 4) and cover the stacks of cans C when the doors are raised to the position shown in Figs. 1 and 2. The sides of the wells 13 have portions 13^a in which the guides 14^a lie when the doors are dropped.

17 indicates the partitions separating the stacks of cans C while 16 is a retainer for price or grade indicators when such are used.

18 indicates the can chute, 19 the can restraining spring and 20 the can baffle while 21 represents the oil drip reservoir and 22 the can receiving receptacle. All these parts being well known through my patents aforesaid are not claimed herein.

The locking mechanism comprises a disc 23 carried on the squared portion 26 of a locking handle 27 having a key-operated lock 28 of known construction. Sliding bolts 29 operate in guides 30 attached to the front wall 2. The bolts are connected with the rockable disc 23 by pin and eccentric slot connections 31. The disc 23 has a hook 24 to hook over the shank 12^a and has a projection 25 that engages the member 7 to hold door 5 down in closed position when disc 23 is turned clockwise to the position shown in Fig. 1. When disc 23 is turned counter-clockwise from the position shown in Fig. 1 bolts 29 will be withdrawn from below the bottom edges of the doors 13 and allow the doors to gravitate into the wells 13. At the same time hook 24 will release shank 12^a so door 11 can be raised when desired and projection 25 will be released from engagement with element 7 so door 5 can be lifted and removed.

In my Patent No. 2,432,455 aforesaid I have disclosed a similar door and well arrangement wherein telescoping door sections disappear in the wells when the doors are not used to cover the can stacks, so I make no broad claim to the disappearing door feature in this application but what I do claim and desire to secure by Letters Patent is:

In apparatus of the class described wherein a chambered body is provided on its outer sides with partitions defining can-stacking recesses and wherein a can chute, an oil receiver and a can receiver are located within the chamber, and wherein wells are provided on the sides of

the body below the can stacking recesses and wherein a sliding door is provided for covering the can stacks for location in said wells when desired, and wherein two door covered openings are provided in the front wall of the body for access to said chute and oil receiver and said can receiver, the improvement which comprises a sliding door for the opening to the can chute and oil receiver and a removable door for the can receiver opening, a locking disc oscillatably mounted within the body on its front wall and having a locking handle projecting through the same to the outside, horizontally disposed sliding bolts mounted on said front wall within the body and capable of being projected beneath the lower edge of the can stack doors when the same are in closed position, pin and slot connections between said bolts and said disc, said can chute and oil saver door having a handle with a shank, said disc having a hook to hook over said shank and having a projection to engage said removable door when the same is in closed position to lock all doors shut when said disc is in one position and to release the same when said disc is in another position, said removable door having an upper groove-forming element, said projection being adapted to engage said upper groove-forming element and hold the door in its closed position, said hook and said projection being disposed at right angles to said pins.

HARVEY J. SMITH.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
818,443	Holden	Apr. 24, 1906
950,551	Ledoux	Mar. 1, 1910
2,115,947	Ellison	May 3, 1938
2,217,775	Smith	Oct. 15, 1940
2,432,455	Smith	Dec. 9, 1947
2,440,541	Gash	Apr. 27, 1948

FOREIGN PATENTS

Number	Country	Date
586,241	France	Mar. 20, 1925
674,427	France	Jan. 28, 1930