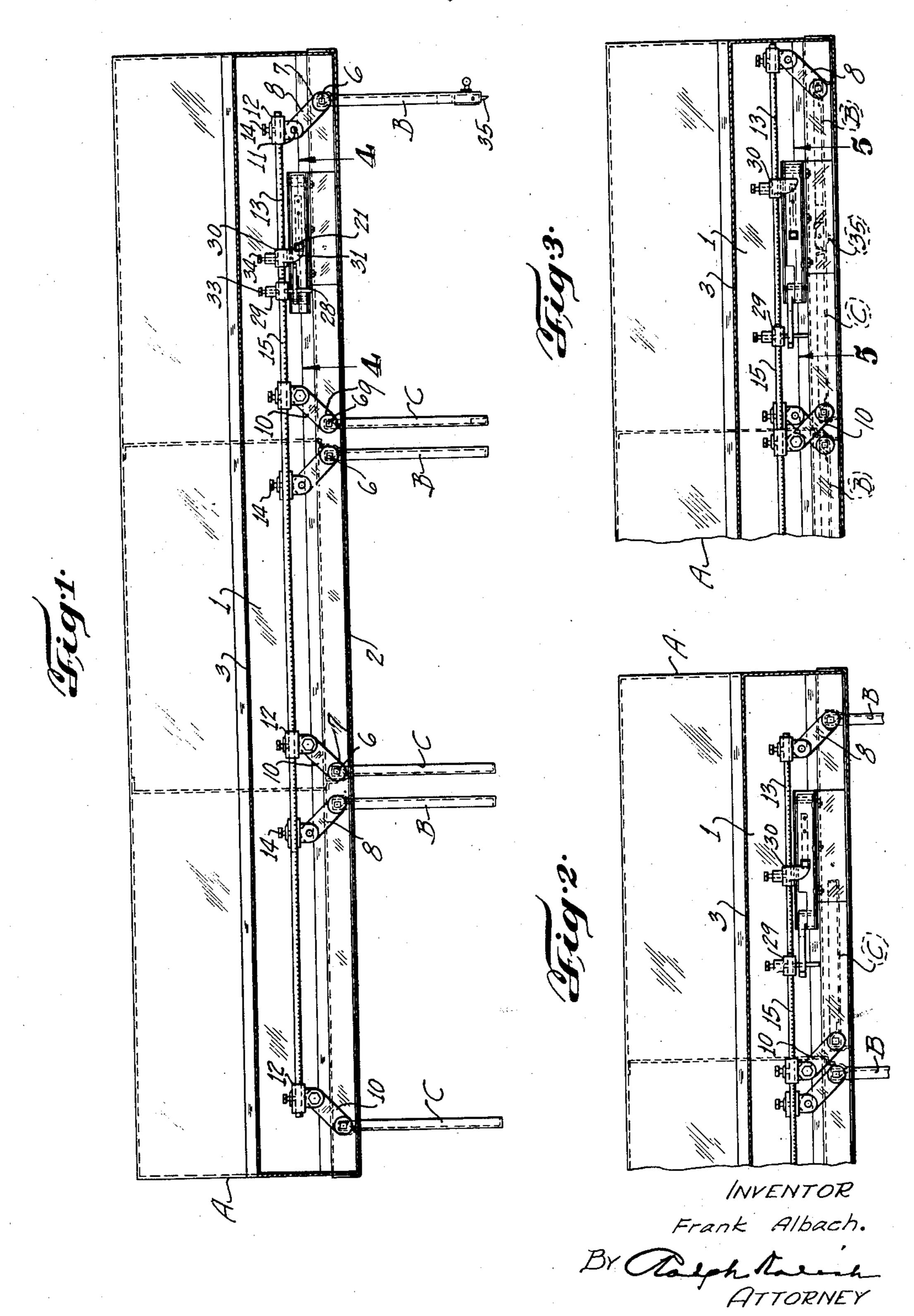
WARDROBE OR LOCKER

Filed July 27, 1932

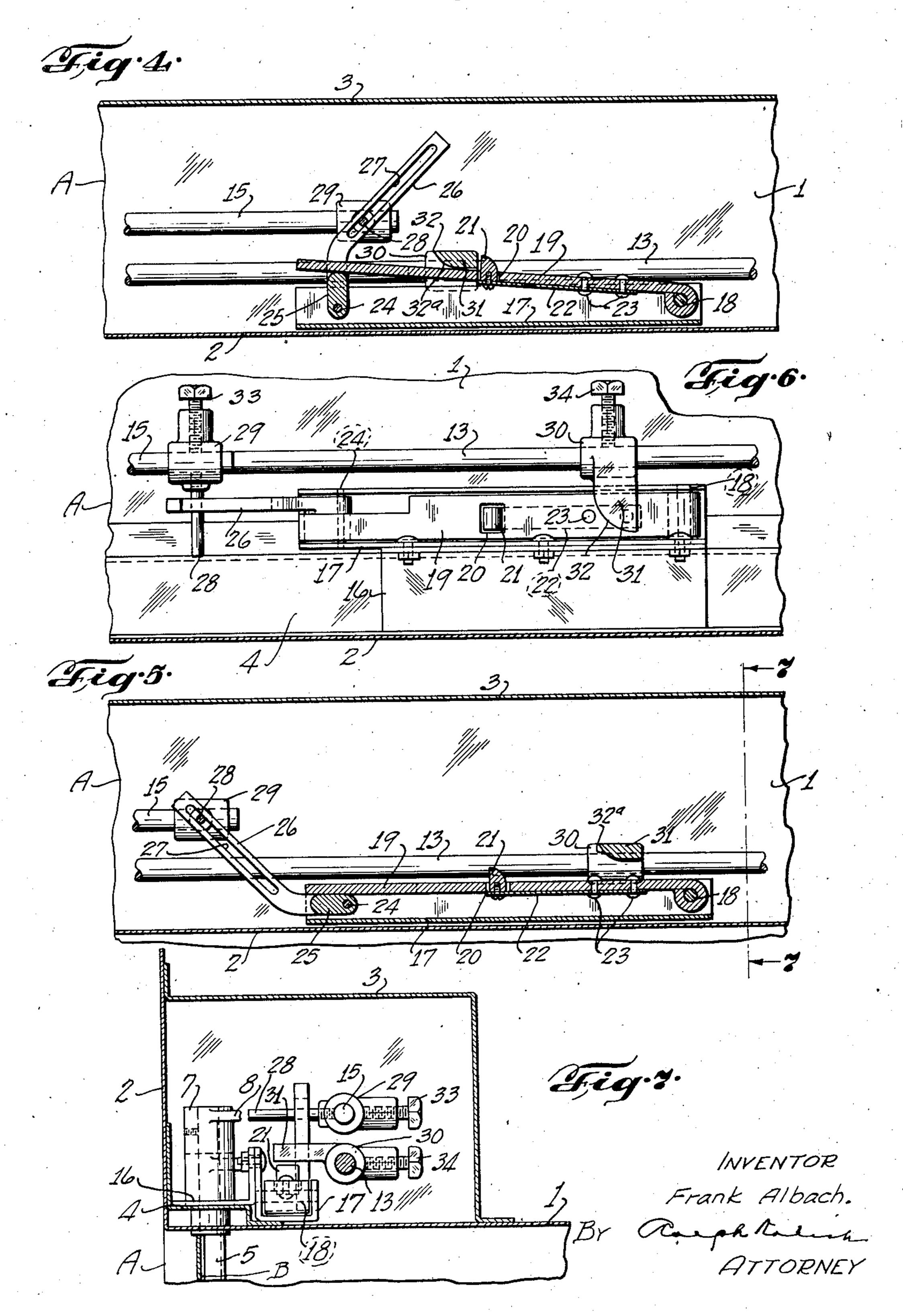
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WARDROBE OR LOCKER

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## UNITED STATES PATENT OFFICE

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WARDROBE OR LOCKER

Application filed July 27, 1932. Serial No. 624,988.

useful improvement in wardrobes or lockers ure 1; and of the type especially, though not exclusively, Figure 7 is a detail sectional view taken ap-

adapted for use in schools.

object the provision upon the wardrobe or wall of a box-like housing 3 likewise extendlocker of mechanism for positively and auto- ing on the top wall 1 the length of the cabimatically preventing the companion doors of net. Also extending longitudinally of the a pair being simultaneously moved or actu-cabinet at the lower front corner of the housated to closed position, thereby most efficiently ing 3, is a head-plate or angular Z-shaped 70

kind mentioned.

And with the above and other objects in as best seen in Figure 7. view, my invention resides in the novel features of form, construction, arrangement, and are each suitably equipped and closable, as combination of parts presently described and in my said co-pending application fully depointed out in the claims.

tion for preventing simultaneous closing of a hand, and the several doors being preferably companion pair of the doors, the several doors so pivotally mounted in the cabinet as to of the wardrobe being so connected that the project, when fully open, as in Figure 1, in right-hand doors and the left-hand doors of parallel relation approximately right anguthe several pairs thereof may, as respective larly to the front of the wardrobe. units, be successively swung to open or closed position and the several doors of the locker being illustrated as in fully open position;

Figure 2 is a broken similar view, the lefthand doors being shown in fully closed, and the right-hand doors being shown in fully

open, position;

Figure 3 is also a broken similar view, the 15 right and left-hand doors being shown in

fully closed position;

Figures 4 and 5 are enlarged detail sectional views taken approximately on the lines 4-4 and 5-5, respectively, Figures 1 and 3;

This invention relates to a certain new and door-retaining mechanism as shown in Fig-

proximately on the line 7--7, Figure 5.

Wardrobes or lockers of the type stated are Referring now more in detail and by refer- 55 generally equipped with companion opposite- ence characters to the drawings, which illusly opening doors, and very frequently the trate a preferred embodiment of my invenchild or other person manipulating the doors tion, the wardrobe proper A is preferably of to closed position innocently or thoughtlessly the multiple compartment type fully degrips the doors for such purpose at their free scribed in my co-pending application Serial 60 margins, with the result that the fingers of No. 592,527 and, as there illustrated and dethe child or other such person are crushed or scribed, includes a top wall 1, fixed to and jammed between the closing doors to their upstanding from which and extending longimore or less serious injury.

tudinally along the front of the cabinet, is a My present invention has hence for its chief head-board 2 preferably forming the front 65 eliminating any accidents or injuries of the member 4 having its horizontal web portion spaced vertically from the cabinet top-wall 1,

scribed, by a respective companion pair of In the accompanying drawings,— oppositely or opposingly swingable leaf-Figure 1 is a plan view of a wardrobe or members or doors B, C, the doors B swinging locker equipped with mechanism of my invening right-hand and the doors C swinging left-

At its upper end, each door-supporting pivot-shaft 5 has a reduced squared end or non-circular pintle-extension or stub 6, which projects upwardly through the top-wall 1 90 and head-plate 4.

Suitably fixed on the stub-shafts 6 of the respective doors B, are hub-bodies 7 carrying lateral arms 8, and similarly mounted on and secured to the stub-shafts 6 of the doors C, 95 are hub-bodies 9 also carrying lateral arms 10 disposed, however, for swingable movement in a plane above or over the plane of swingable movement of the arms 8.

At its free or outer end, each of the arms 8 100 Figure 6 is an enlarged plan view of the is suitably faced and apertured for disposi-

tion between the bifurcated arms of, and pivotally, as by a pivot-pin 11, suitably secured to, a yoke 12, the body of which has an aperture for reception of an actuator-rod 5 13 extending longitudinally in the housing 3 and supported by and from the series of arms 8 of the doors B, suitable fastening means, as set-screws 14, serving to adjustably secure

the yokes 12 on the rod 13.

In a similar manner, as shown, the arms 10 are pivotally connected to and support a second actuator-rod 15 in a plane above that face of the strip 19, as best seen in Figures of the rod 13, the rods 13, 15, being oppo- 4 and 5. sitely reciprocable in the housing 3 for cor-15 respondingly, through the arms 8, 10, respectively, swingably actuating the doors B and C, also respectively from open to closed, or

closed to open, positions.

Thus there is a positive mechanical connection between all the right-hand doors B, suitably mounted for adjustment on the actu-B and C are in open position, the arms 8 of of any particular wardrobe. the right-hand doors B are disposed obliquely Normally, as may be said, the doors B and to the left, while the arms 10 of the left-hand 35 doors C are disposed obliquely to the right, eral parts are disposed as best seen in Figures 100 as best seen in Figure 1; and that, when the doors B and C are in closed position, the 40 doors C are disposed obliquely to the left, tongue 31 correspondingly shifted to occupy 105 all as best seen in Figure 3.

45 doors of the series will be likewise locked or means, as at 35, for retaining the respective latch 21 carried into operative engagement doors B and C in fully open position. To, sition and that it cannot be moved to closed closed position, which might seriously crush or otherwise injure the fingers of a child or other person accidentally caught between the so closing doors, the cabinet A is provided longitudinally upon the head-plate 4 with a suitable preferably elongated angle-bracket 16, bolted or otherwise fixed to which in oper-65 ative relation to the actuator-bars 13, 15, is

a longitudinally extending substantially Ushaped strip 17 having its legs presented

upwardly.

Extending lengthwise of the strip 17 and pivotally attached thereto at an end, as at 70 18, is a flat strip 19 apertured or slotted suitably within its length, as at 29, to freely accommodate a suitable latch-member 21 supported for yielding movement on the free end of a spring-strip 22 riveted or otherwise fixed 75 at its rear end, as at 23, to and upon the under

Pivotally mounted, as at 24, in the strip 17 for engagement with the free end of the piv- 80 oted strip 19, is a cam 25 having an obliquely laterally extending arm 26 lengthwise slotted, as at 27, for movably accommodating a pin or stud 28 supported by a hub-member 29 whereby merely on manual manipulation of ator-rod 15. And also suitably mounted for any one thereof, all of the doors B may be adjustment on the actuator-rod 13, is a second simultaneously and in unison swung to open hub-member 30 provided with a lateral exor closed position, as the case may be. In tension or tongue 31 preferably rounded, as at like manner, there is a positive mechanical 32, on its forward face and there having a 90 connection between all of the doors C, where- preferably arcuate under face, as at 32a, for by similarly on manual manipulation of any purposes presently appearing. By means of one thereof, all of the doors C may be simul- set-screws or the like 33, 34, the respective taneously and in unison swung to open or hub-members 29, 30, may be readily and conclosed position, as the case may be. And it veniently secured in properly adjusted posi- 95 will be observed that, when the several doors tions on the rods 13, 15, to meet the conditions

C are fully closed, in which position the sev-

3, 5, and 6.

Assume now that a right-hand door B is arms 8 of the right-hand doors B are disposed pivotally opened. In such movement, the obliquely to the right, and the arms 10 of the rod 13 is shifted towards the left, and the a position to the left of the now depressed It follows that, if any one of the series of latch 21. As long as the door or doors C redoors B is locked or retained in fully or par- main closed, the door or doors B may be freely tially open or closed position, the remaining pivotally closed. However, a door C is now opened, whereupon the rod 15 is shifted to the retained in corresponding open or closed posi-right, in which movement the stud 28 rides in tion. Similarly, with respect to the series of the slot 27 and pivotally swings the arm 26 doors C; and any pair of the doors B, C, and the connected cam 25. Through the cam may be readily equipped with latching- 25, the strip 19 is pivotally elevated, and the series of doors in cabinet closing position. with the tongue 31, as best seen in Figure 4. Likewise, while not here specifically shown, With the latch 21 and tongue 31 in such enthe cabinet may be equipped with suitable gaging relation, it will be evident that the means for releasably retaining the series of door B is now positively retained in open pohowever, positively present simultaneous position until the latch 21 is again moved out movement of both series of doors B, C, to of the path of movement of the tongue 31, which follows as soon as the door C is first closed, in which movement, reversely, the cam 25 is lowered, when the strip 19 with its carried latch 21 assume normal position, as best seen in Figures 3 and 5.

Assume now that a door C is first opened, whereupon the cam 25 will similarly be rocked and the strip 19 and its carried

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latch 21 similarly shifted to elevated posi- 3. In combination, a frame, a pair of doors tion into the path of movement of hinged in the frame and oppositely separately the tongue 31. Of course, so long as the swingable, a tongue having connection with, right-hand door or doors B remain closed, and shiftable on opening movement of, one 5 the door C may be freely pivotally moved of said doors, a pivoted-strip on the frame, 70 to closed position. However, if a right-hand a latch-member carried by the strip, and door B is now opened, the tongue 31 will, as means actuable on opening movement of the described, be shifted by and with the actu- second door for pivotally shifting the strip ator bar 13 to the left and in such movement for disposing the latch-member in engaging 10 depress and ride over the latch 21 substantial- relation with the tongue for preventing clos- 75 ly into the position shown in Figure 4, whereupon the latch 21 yieldingly takes its normal position. Through engagement then of the latch 21 with the tongue 31, again the door or 15 doors B will be positively retained in open position and cannot be moved to closed position until the door or doors C are first moved to closed position, the latch 21, in such latter movement, as described, being carried out of 20 the returning path of movement of the tongue 31.

The movement of the tongue 31 over and past the latch 21 is greatly facilitated by the rounded, arcuate formation of the tongue 31, 25 as described, and thus the companion pair of pairs of doors B, C, are most positively and effectively prevented from being simultaneously closed, it being necessary that the door or doors C be first shifted or moved to fully 30 closed position before the door or doors B may be closed, and accidents of the type that I have mentioned being hence absolutely hinged in the frame and oppositely separately avoided. The mechanism described is relatively simple and inexpensive in structure, is 35 durable, and efficiently performs its intended functions.

It may be added that changes and modifications in the form, construction, arrangement, and combination of the several parts of the 40 wardrobe may be made and substituted for those herein shown and described without departing from the nature and spirit of my invention.

Having thus described my invention what 45 I claim and desire to secure by Letters Patent

1s,---

1. In combination, a frame, a pair of doors hinged in the frame and opposite separately swingable, and means including co-operable 50 tongue and latch members actuable on opening movement of the doors for preventing movement of one of said doors to closed position until after closing movement of the other door.

2. In combination, a frame, a pair of doors hinged in the frame and oppositely separately swingable, a tongue having connection with, and shiftable on opening movement of, one of said doors, a latch-member mounted for movement on the frame, and means actuable on opening movement of the second door for shifting the latch-member into engaging relation with the tongue for preventing closing movement of the first door until after closing 65 movement of the second door.

ing movement of the first door until after

closing movement of the second door.

4. In combination, a frame, a pair of doors hinged in the frame and oppositely separately swingable, a first bar connected to and shift- 80 able by and on opening movement of the first door, a second bar connected to and shiftable by and on opening movement of the second door, a tongue mounted on and shiftable with the first bar, a pivoted strip on the frame, a 85 latch-member on the strip, a cam pivoted on the frame for rocking the strip, a slotted arm extension on the cam, and a stud mounted on and shiftable with the second bar and working in the slot of the arm for actuating 90 the arm for disposing the latch-member on opening movement of the second door in operable engagement with the tongue for preventing closing movement of the first door until after closure of the second door.

5. In combination, a frame, a pair of doors swingable, a tongue having connection with, and shiftable on opening movement of, one of said doors, a strip mounted for movement 100 on the frame, a latch-member on the strip, and means actuable on opening movement of the second door for shifting the strip for disposing latch-member into the returning path of movement of the tongue for prevent- 105 ing closing movement of the first door until after closing movement of the second door, the latch-member being shiftable by the tongue on opening movement of the first door subsequent to opening movement of the 110

second door.

6. In combination, a wardrobe, a plurality of doors hinged for closure of the wardrobe, said doors being disposed in companion pairs and the doors of a pair being oppositely 115 swingable, means connecting the respective right-hand doors of the several pairs for swingable movement as a unit, means for connecting the respective left-hand doors of the several pairs for swingable movement as a 120 second unit, and means for preventing movement of one series of doors to closed position until after closing movement of the other series of doors.

7. In combination, a frame, a first door hinged in the frame for swingable movement, a second door hinged in the frame for swingable movement independently of, and oppositely disposed to, the first door, and means including co-operable members actuable by, 130

and shiftable into engaging relation on opening movement of, the doors for preventing simultaneous swingable movement of the

doors to closed position.

8. In combination, a frame, a first door hinged in the frame for swingable movement, a second door hinged in the frame for swingable movement independently of, and oppositely disposed to, the first door, and means including co-operable members actuable by, and shiftable into engaging relation on opening movement of, the doors for preventing closure of one of said doors until the other door is in fully closed position.

9. In combination, a frame, a first door hinged in the frame for swingable movement, a second door hinged in the frame for swingable movement independently of, and oppositely disposed to, the first door, and means including co-operable members actuable by, and shiftable into engaging relation on opening movement of, the doors for preventing

movement of one of said doors to closed po-

sition until the other door is fully closed.

10. In combination, a frame, a pair of doors hinged in the frame and independently oppositely swingable, a tongue having connection with, and shiftable on opening movement of, one of said doors, a slotted strip mounted pivotally on the frame, a latchmember on the strip normally projecting depressibly through the slot thereof, and means actuable on opening movement of the second door for shifting the strip for disposing the latch-member into the returning path of movement of the tongue for preventing closing movement of the first door until after closing movement of the second door, the latch-member being depressible by the tongue on opening movement of the first door subsequent to opening movement of the second door.

In testimony whereof, I have signed my name to this specification.

FRANK ALBACH.