Dec. 1, 1953 M. E. LANDAU 2,660,965

PROTECTIVE CASE AND FILING UNIT

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Fig. 1.

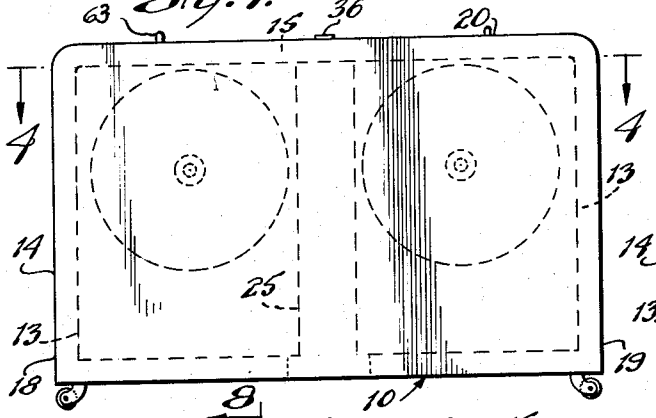
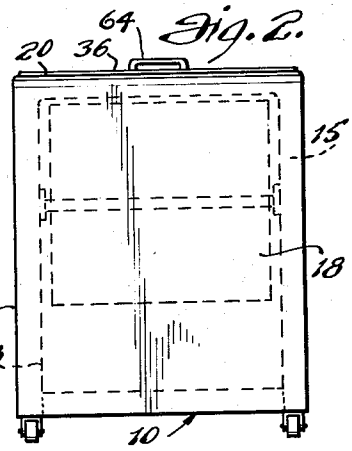


Fig. 2.



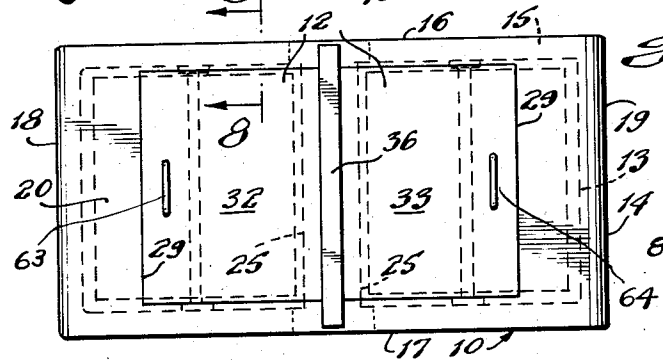


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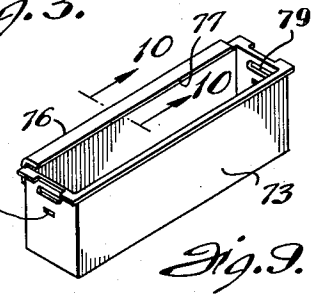


Fig. 9.

Fig. 4.

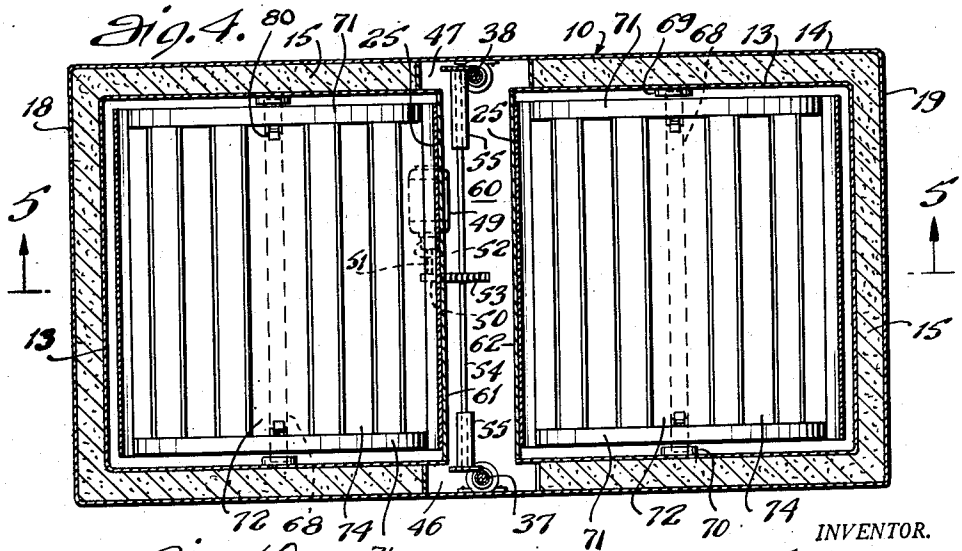


Fig. 10.

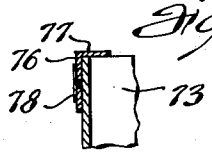
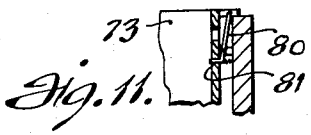


Fig. 11.



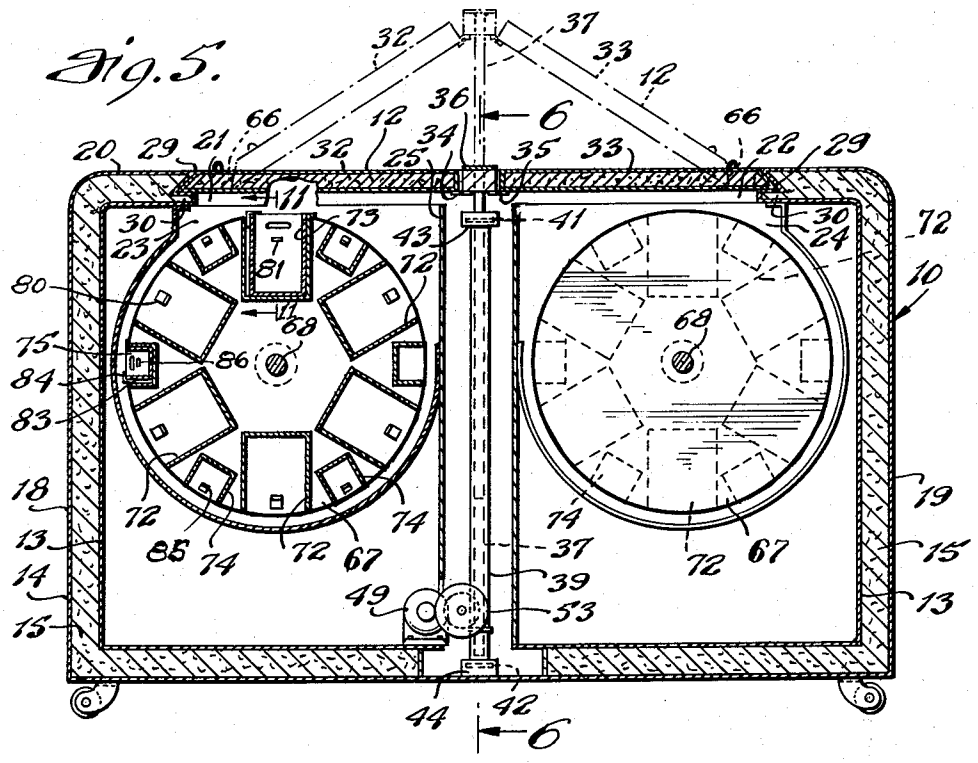
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Fig. 5.



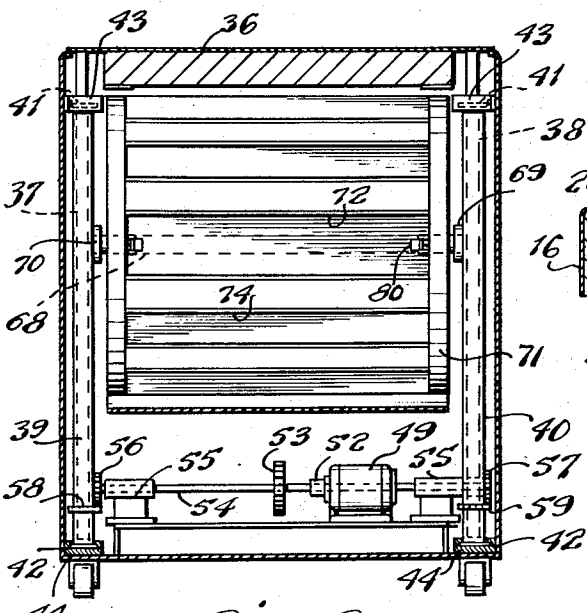


Fig. 6.

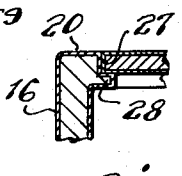


Fig. 8.

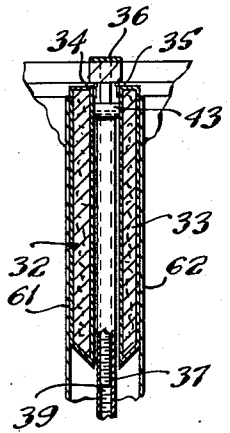


Fig. 7.

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PROTECTIVE CASE AND FILING UNIT

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Application November 1, 1949, Serial No. 124,357

2 Claims. (Cl. 109—58)

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This invention relates to insulated card files and while not limited thereto the same has particular reference to an insulated filing unit for housing ledger cards and signature cards for savings banks and the like.

An object of the invention is to provide a filing unit consisting of an insulated outer case which encloses the filing unit and protects the contents thereof against fire, war damage, theft, etc.

Another object of the invention is to provide a protective outer case which is constructed and arranged to permit of ready access to the filing unit and which may be expeditiously closed and locked.

Another object of the invention is to provide an operating mechanism for raising and lowering the closure means of the protective outer case.

Another object of the invention is to provide a card filing unit which affords increased filing or storage capacity while economizing in floor space and which by its arrangement permits of the simultaneous used thereof by more than one person without interference.

Another object of the invention is to provide within an insulated protective case a rotatable filing unit consisting of a drum adapted to rotate in a clockwise or counter-clockwise direction and which is formed with longitudinally extending pockets or recesses for receiving and holding conventional type card file trays equipped with adjustable spring catches to retain the trays and the cards in position when the drum is rotated during use.

With the foregoing and other objects in view, reference is now made to the following specification and accompanying drawings in which the preferred embodiment of the invention is illustrated.

In the drawings:

Fig. 1 is a view in side elevation of a protective case constructed in accordance with the invention.

Fig. 2 is an end view thereof.

Fig. 3 is a top plan view of the same.

Fig. 4 is an enlarged horizontal sectional view taken approximately on line 4—4 of Fig. 1.

Fig. 5 is an enlarged vertical sectional view taken approximately on line 5—5 of Fig. 4.

Fig. 6 is a transverse vertical sectional view taken approximately on line 6—6 of Fig. 5.

Fig. 7 is a fragmentary sectional view showing the closure members in closed relation within the intermediate partition.

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Fig. 8 is a fragmentary sectional view taken approximately on line 8—8 of Fig. 3.

Fig. 9 is a perspective view of one of the card trays.

Fig. 10 is a fragmentary vertical sectional view taken approximately on line 10—10 of Fig. 9.

Fig. 11 is a fragmentary vertical sectional view taken approximately on line 11—11 of Fig. 5.

Referring to the drawings by characters of reference, an insulated outer case 10 is provided having an open top adapted to be closed by a closure means 12 and which case consists of inner and outer steel shells 13 and 14 arranged with a filling of insulation concrete 15 therebetween so as to render the contents of the case resistant to damage by fire or other attack.

The opposite longitudinally extending side walls 16 and 17 and the opposite end walls 18 and 19 of the outer case 10 are provided with inwardly directed wall portions at their upper ends which form a rectangular top rim 20 providing oppositely disposed top openings 21 and 22 for gaining access to the compartments 23 and 24 located on opposite sides of a transversely extending intermediate partition 25. The top rim 20 is formed with vertical inner edges 27 terminating in inwardly directed flanges 28 extending longitudinally of the opposite sides of the top openings 21 and 22 and at the opposite ends of the outer case, the top rim 20 is formed with outwardly directed undercut edges 29 terminating in inwardly directed flanges 30 which are formed as continuations of the side flanges 28 so as to provide a continuous ledge extending about the opposite side edges and across the end edges of the top rim 20. The said ledges are adapted to receive and support the closure means 12 which consist of oppositely disposed rectangular covers 32 and 33 adapted for movement to and from closing relation with the top openings 21 and 22.

In accordance with the preferred embodiment, the covers 32 and 33 are moved by power means which when disconnected from the power source retains the covers in locked closed relation. For this purpose the closures are swingably connected by means of hinges 34 and 35 to a transversely extending central bar 36 located above the partition 25 and to which are affixed depending screw jacks 37 and 38 adjacent the opposite ends thereof which threadedly engage in vertically disposed sleeves 39 and 40 having flanged opposite ends 41 and 42 arranged in upper and lower bearings 43 and 44 for swivel turning movement of said sleeves for raising and

lowering the bar 36 for movement of the covers 32 and 33 to and from open and closed relation. The sleeves 39 and 40 are located in wells 46 and 47 at the opposite ends of the partition 25 which is of hollow formation for receiving the covers 32 and 33 to dispose the same in an out-of-the-way position when the case is in open relation.

The sleeves 39 and 40 are rotated by means of a reversible electric motor 49 supported on the bottom wall of the inner steel shell 13 having a pinion 50 mounted on the outer end of a shaft 51 driven through a reduction gearing 52 and which is in meshing engagement with a gear 53 secured on a transverse shaft 54 mounted in bearings 55 affixed to the bottom wall of the inner steel shell 13. The shaft 54 has miter gears 56 and 57 affixed to the opposite ends thereof which are in meshing engagement with miter gears 58 and 59 affixed to the sleeves 39 and 40 respectively. The aforesaid arrangement is such that when the motor is energized to rotate in one direction, the sleeves 39 and 40 will be rotated to project the screw jacks 37 and 38 upwardly so as to raise the bar 36 together with the covers 32 and 33 which will be moved from closed relation to an elevated position above the case with the covers depending in parallel relation from the bar 36. The motor may then be energized to rotate the sleeves 39 and 40 in the opposite direction whereby the screw jacks 37 and 38 will be retracted to lowered position within the sleeves with the covers 32 and 33 descending into the space 60 between the opposite walls 61 and 62 of the partition 25. In order to move the closures 32 and 33 from open relation to closed relation, the motor is energized to turn the sleeves 38 and 39 so as to project the screw jacks 37 and 38 to thereby raise the bar 36 together with the covers to a position above the case 10. When in this position the covers 32 and 33 are manually swung outwardly into inclined relation by grasping the hand grips 63 and 64 and pulling outwardly thereon so that when the motor is reversed to retract the screw jacks 37 and 38 downwardly within the sleeves 39 and 40, the outer end of the covers will engage the side flanges 28 and slide thereover into horizontal closed relation. The bearings 43 and 44 are affixed to the side and bottom walls of the outer shell 14 and the covers 32 and 33 each consists of a metal shell having a filling of insulation concrete 15, the ends 66 thereof extending outwardly in angular relation so as to engage beneath the undercut edges 29 when the covers are in closed relation.

The outer case 10 is adapted to constitute a protective housing for one or more filing units indicated generally by the reference character 67. As illustrated in the present embodiment, the case 10 is provided with two such filing units 67 arranged respectively in the compartments 23 and 24. The filing units 67 are each of general cylindrical formation and have a shaft 68 extending centrally therethrough with the protruding ends thereof mounted in bearings 69 and 70 affixed to the opposite side walls of the inner shell 13 to dispose the shaft 68 in horizontal relation for turning movement of the filing unit in either a clockwise or counterclockwise direction with the upper portion of the units arranged adjacent to the top openings 21 and 22 in the compartments 23 and 24 respectively.

The units each include end walls 71 preferably fashioned of sheet material and secured therebetween are a plurality of radially arranged circumferentially spaced open-top receptacles 72 of rectangular shape in cross-section adapted to provide compartments for removably receiving standard filing trays 73. Arranged between the filing trays 73 are a plurality of radially arranged circumferentially spaced receptacles 74 which are of rectangular shape in cross-section and provide compartments or recesses for open-top card cases 75. The filing trays 73 are adapted to receive filing cards which extend laterally across the trays in side by side parallel relation throughout the length thereof which cards are secured in position therein by any desired means such as by an angulated bar 76 pivoted to the side wall of the filing tray with the top flange 77 thereof projecting inwardly in overlying relation with the upper edges of the cards when arranged therein. The said bar is adapted to be manually moved outwardly against the tension of a spring 78 to free the cards for removal therefrom. The trays 73 are somewhat shorter in length than the length of the receptacle 72 whereby the trays may be grasped by the hand opening 79 for removing the tray from its receptacle. In order to retain the trays in position in the receptacle when the unit is rotated, latch members 80 are pivoted on the end walls of each of the receptacles which are adapted to automatically engage in keeper openings 81 in the end walls of the trays for latching the trays in the receptacles.

The open-top card cases 75 are similar to the filing trays 73 in construction and are provided with angulated bars 83 pivoted to the side walls thereof with the top flanges 84 of said bars projecting inwardly of the upper edges of the card cases for securing cards therein similar to the construction and arrangement of the angulated bar 76 of the filing trays 73. The receptacles 74 are also provided with latch members 85 pivoted to the end walls thereof which are adapted to engage in keeper openings 86 in the end walls of the card cases for securely latching the card cases in position in the receptacles similar to the latches 80 for retaining the filling trays 73 in position in the receptacles 72. It will be understood that the filing trays 73 and card cases 75 may be released from the receptacles for removal therefrom by swinging the latch members 80 and 85 out of latched engagement with the keeper openings 81 and 86 respectively.

Arranged in this manner, the filing units 67 are accessible from each side of the case 10 for gaining access to the cards filed therein which are arranged transversely of the trays and card cases and in front of an individual standing at either side of the case. The filing units are adapted to be rotated either in a clockwise or counter-clockwise direction so as to bring any one of the trays or card cases uppermost for gaining access thereto.

What is claimed is:

1. A fireproof protective case for housing rotary-type card filing units, said case being constructed with spaced inner and outer shells of sheet steel with an insulation filling between said shells, a rectangular opening in the top of the case to afford access to the filing units, a transversely extending central bar located medially of said top opening, a pair of insulated covers hinged to opposite sides of said bar and closing the top opening of said case when in horizontal position thereon, means affixed to and adjacent the ends of said central bar and depending therefrom between the filing units, and actuating means to engage said first named means for

moving said central bar and the attached covers upwardly from closed horizontal relation to open vertical relation and thence downwardly between the filing units to an out-of-the-way position within the said case to afford unobstructed use of the filing units by two or more persons simultaneously while standing on opposite sides of the case and facing each other.

2. A card filing device intended for simultaneous use by two or more persons positioned on opposite sides thereof and facing each other, comprising an insulated case having a top opening, a pair of mechanically operated covers therefor, cylindrical units located within said case and rotatably mounted on horizontally disposed axes, and open-top trays carried by said cylindrical units and rotatable therewith for disposing any tray uppermost, and said trays being of different sizes and alternately arranged and adapted to carry ledger and signature cards respectively

with the faces thereof disposed toward the individual users of the units on the side of the case most convenient to their respective stations to facilitate reference by tellers in savings banks.

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