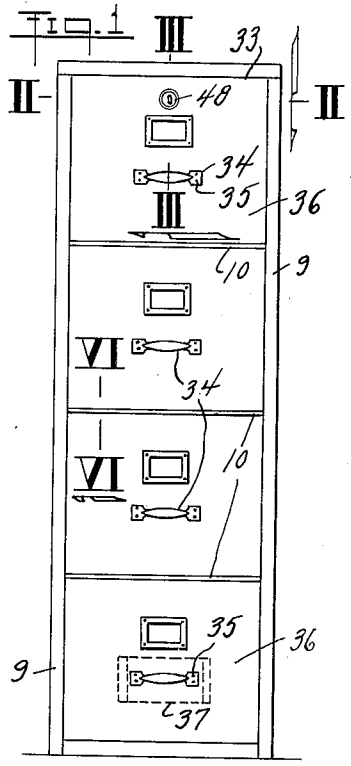
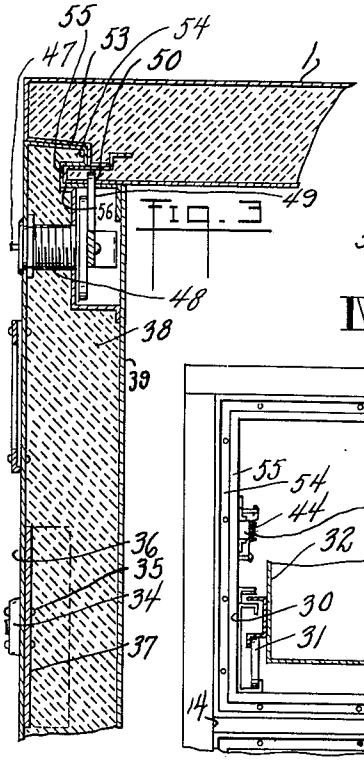
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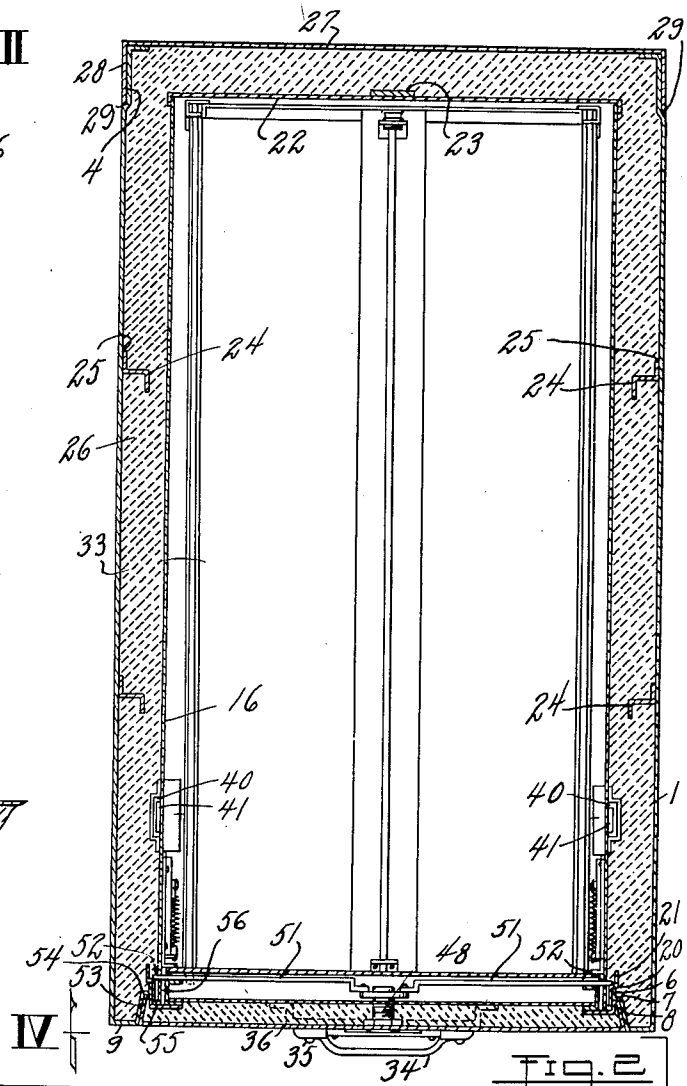
Jan. 20, 1942. G. F. PEITER 2,270,551

MULTIDRAWER FIRE RESISTANT FILING CABINET

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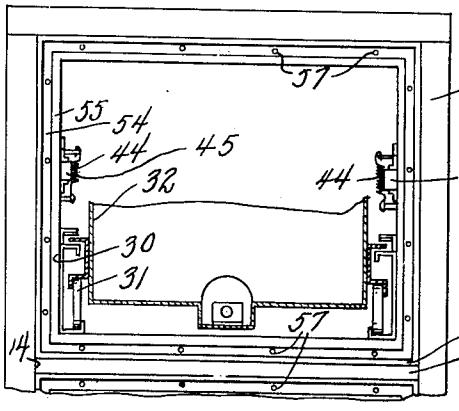


FIG. 4

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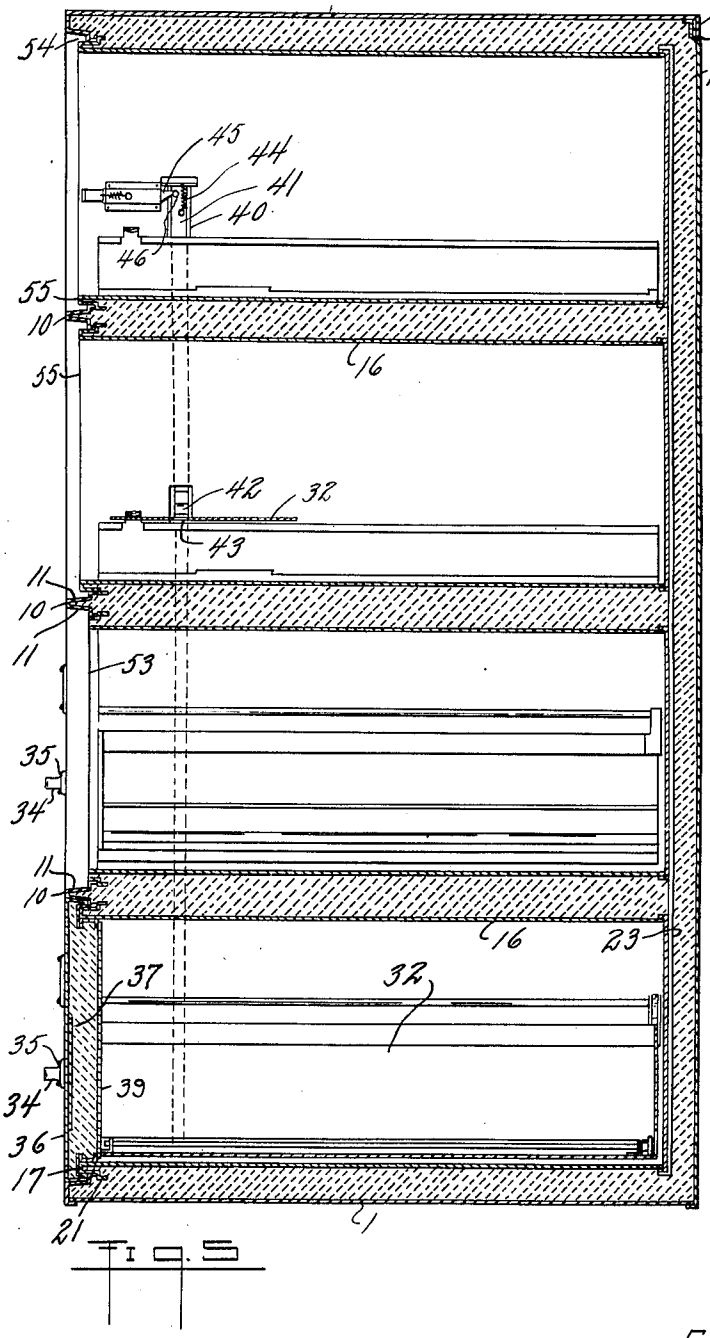
Attorney

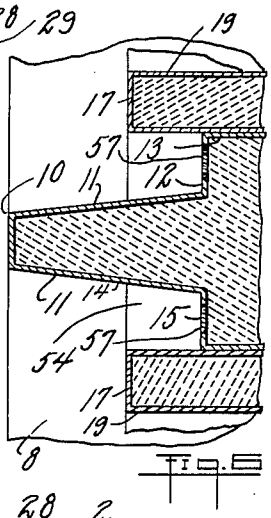
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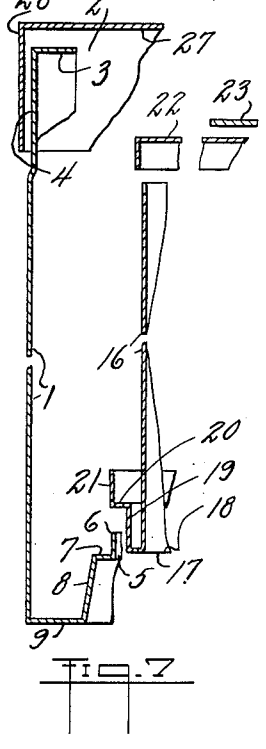
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MULTIDRAWER FIRE RESISTANT FILING CABINET

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Inventor

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By

Attorney

AND RELATED DEVICES.

Patented Jan. 20, 1942

2,270,551

UNITED STATES PATENT OFFICE

2,270,551

MULTIDRAWER FIRE RESISTANT FILING CABINET

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Application July 11, 1939, Serial No. 283,881

3 Claims. (Cl. 109—84)

This invention relates to drawer mounting in a pocket and insulated from a casing.

This invention has utility when incorporated in metal drawer cabinets. Advantages accrue in ready alignment of the elements. These advantages in alignment contribute to speed in assembly. The interfitting in the assembly is an effective control for stiffening or rigidity. The location of the insulation is efficient in retarding heat flow.

Referring to the drawings:

Fig. 1 is a front view of an embodiment of the invention in a four drawer vertical insulated filing cabinet;

Fig. 2 is a section on an enlarged scale on the line II—II, Fig. 1, showing the drawer in closed position;

Fig. 3 is a section on the line III—III, Fig. 1, showing features of the lock for the primary or control drawer;

Fig. 4 is a view from the line IV—IV, Fig. 2, but through the drawer in the pocket showing the lock relationship for the primary or control drawer;

Fig. 5 is a section through the cabinet showing various features of the pocket and drawer assembly therein;

Fig. 6 is an enlarged section on the line VI—VI, Fig. 1, showing the pocket assembly at the seat or throat for the drawer opening; and

Fig. 7 is a fragmentary distributed view of the assembly between the pocket and seat in the casing.

Casing 1 (Fig. 7) of sheet metal in an oblong or rectangular tube form has rear opening 2 bounded by short inwardly extending flange 3 with adjacent seat 4 to the major tubular portion 1. Remote from the opening 2 this tube has opening 5 surrounded by inwardly extending flange 6 parallel to the side 1. This flange 6 is a stiffening terminus for offset 7, toward which extends taper throat portion 8 from the front ledge 9. This general tubular form as to the bounding means has supplemental portions 10 parallel to the sides dividing the front of the casing into a plurality of these front throat openings 5. This portion 10 has therefrom oppositely tapering portions 11 similar to the taper portion 8 with offsets 12 similar to the offsets 7, and stiffening free end flange portions 13 similar to the flange portion 6. These parallel portions 10 of sheet metal may have weld assembly 14 with the similar portions 8, 7, 6, say even to spot weld, but sufficient for rigidity in assembly coplanar with the portion 9 in giving a finished front plane therefor.

These offsets 7, 12, may have openings 15. Complementary to these respective throat openings 5 there may be inserted pockets 16 through the rear opening 2 for telescopic register. These tubular pockets 16 may have outward terminus ledges 17 about pocket front opening 18. From this offset 17 there is, parallel to the pocket side 16, return flange 19 which may slide along the flange 6 to have the flange 6 abut offset 20 stiffened by flange extension 21 parallel to the flange portion 19. This register with the portions 6 continues with the portion 13 in completing the bounding of the throat by this pocket having the opening 18 at the throat. This pocket or rectangular tubular portion 16 has rear closure 22 in weld assembly therewith. Furthermore, for this series of pockets 16, say four in number herein, there may be rear strap 23 having weld assembly with the separate closure portions 22, and thereby providing spacing stiffening means for these several pockets thrust as a unit into telescopic assembly with the throats.

The casing 1 (Fig. 2), in the event there be light gage sheet metal or relative depth for the pockets requiring spacing between the front and rear, may desirably have stiffening. Accordingly, to such end Z-shaped portions 24 may have weld anchorage 25 with the vertical sides of the casing 1, and clear of the pockets 16. There may be supplemental weld assembly with the throats or with this front. Plastic or cementitious filler 26 may be poured downwardly in through the open back 2 with the throat or open front 5 horizontal or therebelow. In this pouring of the cementitious insulation body such may be asbestos, finely divided mica, or other insulation as a poured cement. This effects a sealing of the openings 15 susceptible for painting or enameling thereover. Furthermore, it stiffens and positions the pockets relatively to the casing, and is to such extent a reinforcement as well as an insulation. With this pour of the cement 26 complete, it is in order to place in position back closure 27 with flange 28 registering in the seat 4 with weld assembly 29 to complete the unit structure of this multi-pocket cabinet.

Completion of the pockets may be effected by welding anchoring channels 30 (Fig. 4) on opposite sides for anti-friction drawer extensions 31 of the respective drawer bodies having sides 32. Control drawer 33, herein shown as the top drawer, has locking means control over the other or secondary drawers, herein shown as there-

below. The respective drawers have grips or pull handles 34 with anchorage 35 through drawer front wall 36 to engage reinforcement 37 inwardly extending and embedded in cementitious insulation filler 38. These embedded reinforcements 37 from the front wall 36 are short of through rear wall 39 of this double wall insulation front for the respective drawers.

On opposite sides of each of the drawers in ways 40 extend rods 41 having stops 42 to register with openings 43 on the opposite sides of each of the drawers and at their walls 32. These rods 41 are normally thrust clear of the stops 42 by springs 44. Accordingly, when control upper drawer is outward, the drawers therebelow are released, but as the control upper drawer is inserted, it is effective through pair of cams 45 acting on pins 46 from the respective rods 41 to urge each of said rods 41 to be shifted longitudinally in the ways 40 and against resistance of the springs 44 to bring such rods into locking position upon opposite sides of each of the drawers therebelow. Accordingly, as this top or control drawer is in full position in the pocket of the casing, each of the drawers therebelow is automatically locked. It is in order, to complete the locking of the entire set-up, that key 47 (Fig. 3) be inserted in lock 48 and thereby throw arm 49 into opening 50. Simultaneously this lock 48 acts upon rods 51 (Fig. 2) and thrusts such through openings 52. There is thus three point locking of this control drawer in the casing as the key 47 is removed.

In the disclosure herein there is provided a multidrawer insulation cabinet of the vertical drawer type, in which the drawers have insulation fronts affording fire resistant safe-approaching qualities for the entire insulation, especially as against fire hazard. Furthermore, the interfitting between the drawer front and the bounding throats for the pockets is of drawer front insulation ribs 53 (Fig. 3) as projecting to enter grooves 54 with rib 55, as surrounding the groove 54, entering groove 56 of the drawer front inward from the rib 53. This is an interlocking or interfitting assembly effective in insulation notwithstanding the metal way therethrough, due to the fact that the cementitious filler 26 has normal moisture content therewith which at a temperature rise may be separated therefrom as a vapor or steam, to blow paint fillers 57 from the openings 15, thus relieving pressure in the filler chamber in this double wall casing. There is thus defeated the tendency to bulge, and further this moisture vapor as exuding about the metal throat has a tendency to counteract heat conduction travel toward the drawer and its contents. There is thus an additional safeguard against fire hazard or damage thereto.

The structure in the metallic pockets for the casing is a light sheet metal construction, but the supplemental pouring with the insulation filler renders such substantial throughout. This positive assembly anchoring between the throat and the pocket insures an alignment positioning for the pocket and thereby a substantial and accurate location for the drawer in permanence as to the casing. The dual locking for the secondary drawers and triple locking for the primary or control drawer is a further feature for resistance to distortion strain. The anchorage into the filler from the grip promotes retention of the structure in the original form even against a material degree of abuse.

What is claimed and it is desired to secure by United States Letters Patent is:

1. A casing having an open back and opposite thereto a drawer opening surrounded by an inwardly extending throat, a pocket insertable through the open back and having an exterior return bend flange to register with said throat in forming a multi-step seat, said pocket interior providing guide means for a drawer body, an insulation plastic filler unit enveloping the pocket and spacing the pocket back from the casing, and a closure for the back against the unit in completing the casing.

2. A casing having an open back and opposite thereto a drawer opening surrounded by an inwardly extending throat tapered to an offset and a flange, a pocket insertable through the open back and having an exterior return bend flange and intermediate its depth having an outward offset abutting the throat flange to register with said throat in forming a multi-step seat of groove and rib form, said pocket interior providing guide means for a drawer body, an insulation plastic filler unit enveloping the pocket and spacing the pocket back from the casing, and a closure for the back against the unit in completing the casing.

3. A casing having an open back and opposite thereto a plurality of drawer openings each surrounded by a seat-forming stiffened flange to provide a throat, pockets for the respective drawer openings, each pocket including a sheet metal pocket back with an endless series of sides therefrom terminating in complemental seat-providing flanges to register with flanges of said casing at said throat.

GEO. F. PEITER.