April 21, 1953 R. D. McBRIDE 2,635,563

SMALL SAFETY BOX FOR PERMANENT INSTALLATION

Filed Aug. 19, 1949 2 SHEETS—SHEET 1

Fig. 1

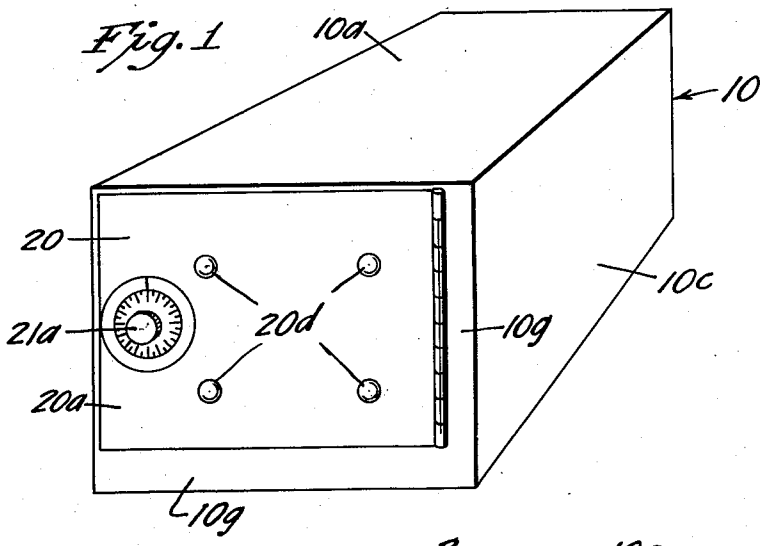


Fig. 2

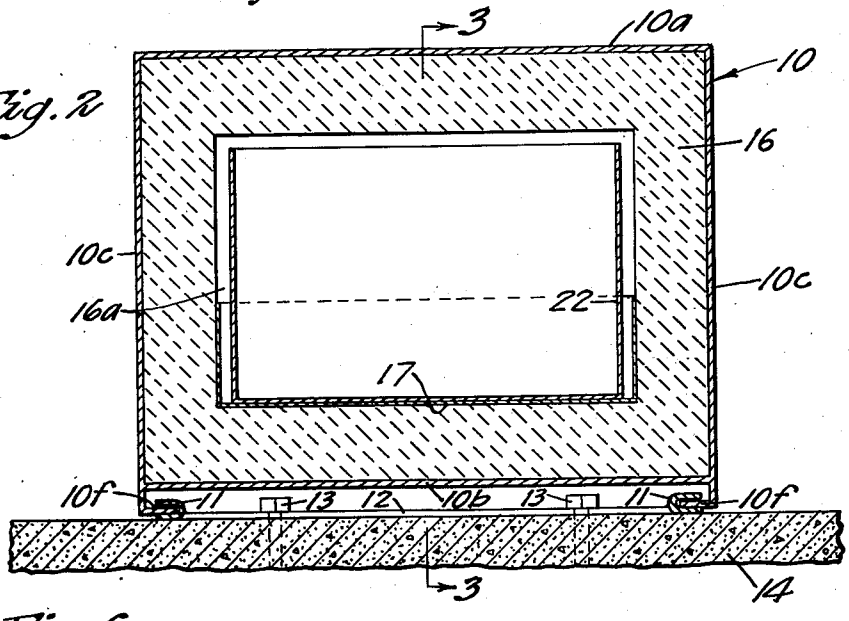
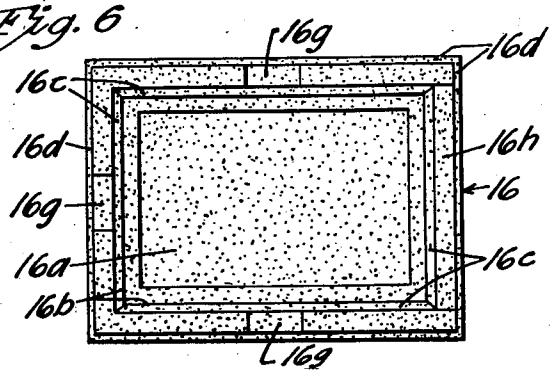


Fig. 6



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Fig. 3

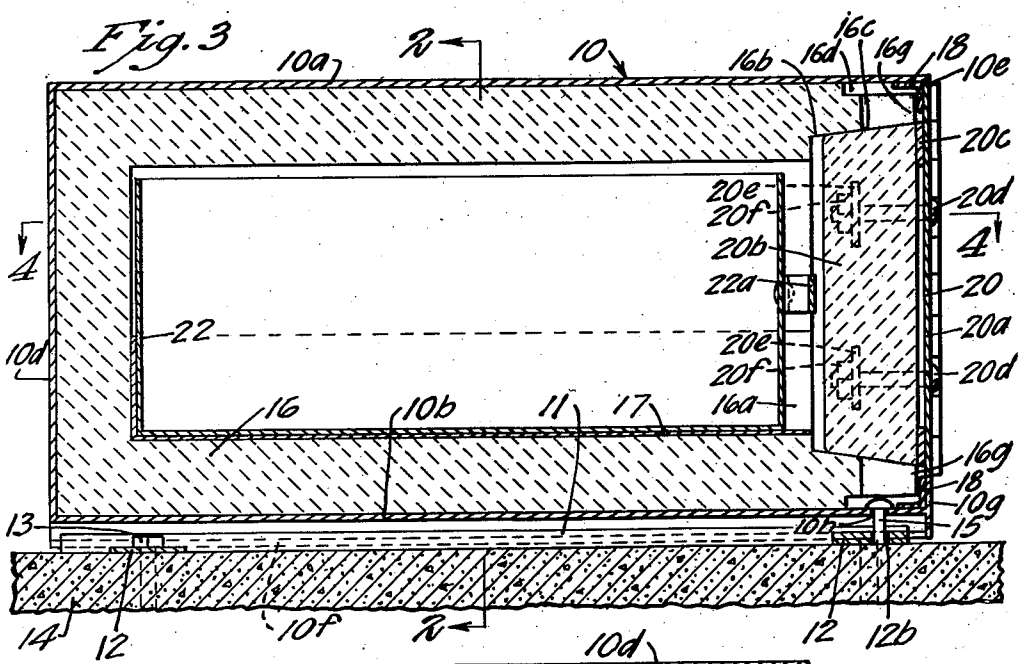


Fig. 4

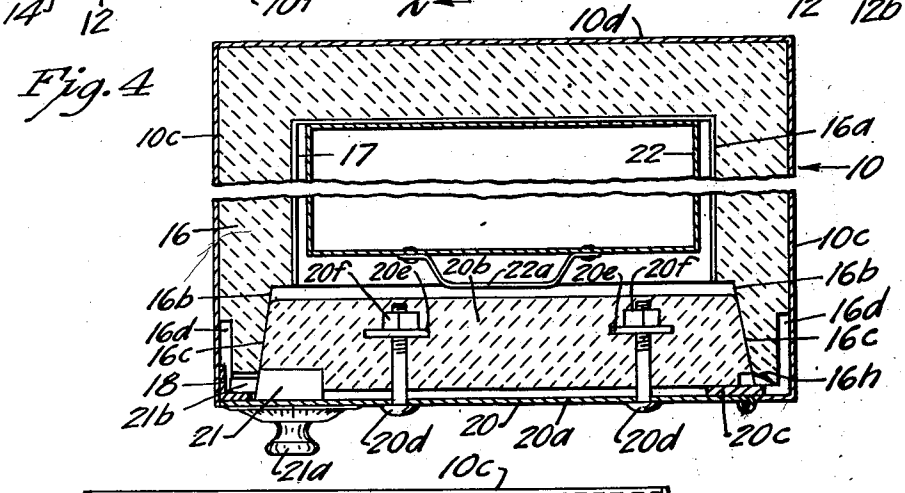
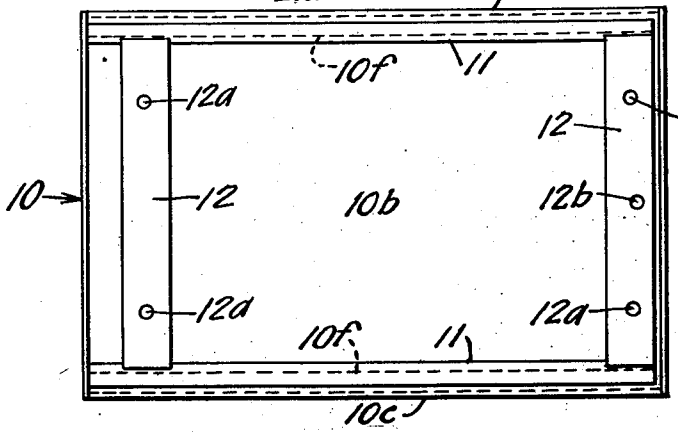


Fig. 5



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UNITED STATES PATENT OFFICE

2,635,563

SMALL SAFETY BOX FOR PERMANENT INSTALLATION

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1 Claim. (Cl. 109—58)

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This invention relates to a safety box structure. While this invention might have various applications, it is particularly adapted for use in homes or small places of business or in business offices. It is desirable to have a safety box in such places for the safe keeping of jewels, money or valuable papers. It is desirable to have such a safety box for protection from loss by fire or theft. Such a safety box could be placed in a small space where it would not be noticeable and where it could be fastened so that it would not be readily removable.

It is an object of this invention to provide a relatively small safety box which will give protection against loss by fire or by theft.

It is another object of this invention to provide a safety box comprising a locking means fastened to a floor or base, means on said box cooperating with said locking means and movable longitudinally therein, means provided for holding said box in fixed relationship to said locking means for preventing longitudinal movement of said box to disengage said locking means.

It is a further object of this invention to provide a safety box structure comprising a casing generally rectangular in transverse section, said casing having a chamber therein, said chamber being fitted with a unitary box-like member of insulating material, said casing and member being opened at one end, said casing being fitted with a door fitting in and closing one end.

These and other objects and advantages of the invention will be fully set forth in the following description made in connection with the accompanying drawings in which like reference characters refer to similar parts throughout the several views and in which—

Fig. 1 is a perspective view of the device of this invention;

Fig. 2 is a view in vertical section taken on line 2—2 of Fig. 3, as indicated by the arrows.

Fig. 3 is a view in vertical section taken on line 3—3 of Fig. 2, as indicated by the arrows;

Fig. 4 is a horizontal section taken on line 4—4 of Fig. 3, as indicated by the arrows, some parts being broken away;

Fig. 5 is a bottom plan view showing locking members; and

Fig. 6 is a view in front elevation of a unitary lining member.

Referring to the drawings, a device is shown comprising a casing 10. While this casing might take various forms, in the embodiment of the invention illustrated, it is shown as substantially rectangular in vertical and horizontal cross section and of somewhat elongated form. Casing 10 has a top wall 10*a*, a bottom wall 10*b*, side walls 10*c*, a rear end wall 10*d* and an open front end 10*e*. Said casing will be made of plate-like material, preferably metal, such as steel. The side walls 10*c* are extended downwardly a short distance below the bottom wall 10*b* and are bent substantially at right angles to form plate-like portions 10*f* extending toward each other. Casing 10 has a narrow front wall 10*g* at its lower portion which extends down to the plane of the lower surface of portion 10*f*. Wall 10*g* also extends vertically at one side of casing 10 at the front end thereof, as shown in Fig. 1. Said front wall 10*g* is secured to said casing 10, as by welding, after member 16, presently to be described, is disposed in said casing. Portions 10*f* form flanges which extend longitudinally substantially the entire length of the casing.

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The flange-like portions 10*f* are disposed in channel members 11 which have a length substanstantially equal to that of casing 10. Members 11 have their channels facing outwardly and are rigidly connected to transversely extending bars 12 disposed adjacent their ends. Bars 12 are each provided with a plurality of holes 12*a* in which are disposed securing or foundation bolts 13 which extend into the base or floor 14 which may be either a wooden floor or made of other materials, such as concrete. Front bar 12 is provided substantially midway of its length with another hole 12*b* which is adapted to receive a headed bolt or pin 15 extending through a hole in the bottom 10*b*. With the described structure it will be seen that casing 10 is slidable longitudinally in channels 11 when pin 15 is removed.

Fitted into casing 10, as previously described, is a unitary member 16 having a wall of considerable thickness which has therein a chamber 16*a* with parallel side walls and which is substantially rectangular in cross section. Member 16 is made of a fireproof or fire resistant substance, such as a composition of silica. Member 16 is open at its front end, the same having an offset portion 16*b* with an outwardly flared inner surface 16*c*. Member 16 also has extending about its outer side at its front end portion a shallow recess 16*d* rectangular in longitudinal section. Member 16 also has grooves 16*g* rectangular in cross section extending across its front end. Said grooves extend centrally of each of three sides and at right angles to said sides, as shown in Fig. 6. The fourth side 16*h* has a downwardly and inwardly inclined upper edge portion. A lining 17, preferably made of metal, is fitted in chamber 16*a*, the same extending along the bottom of said chamber and a short distance upwardly along the sides of said chamber and being open at its front end.

An angle iron frame 18 extends about the front of casing 10 at the inner side thereof, said frame extending about the top, bottom, and one vertical side, this being the side shown at the

left of Fig. 4. Frame 18 is secured to casing 10 in any suitable manner, as by welding. Member 18 prevents the forward movement of insulating member 16. A hole 10*h* is formed through the bottom wall 10*b* adjacent its front end substantially midway between side walls 10*c*.

A door 20 is provided for closing the open end 10*e* of casing 10. Said door comprises an outer flat plate member 20*a*. Said outer plate member is made of sheet material preferably of the same substance as the said casing. Mounted on the inner side of said plate member 20*a* is an insulating block 20*b*. Said insulating block is made preferably of the same substance as the inner unitary insulating member. Secured to plate 20*a* in any suitable manner as by welding and disposed intermediate said insulating block 20*b* and plate 20*a* is a U-shaped metal plate 20*c*. Said U-shaped metal plate 20*c* overlaps slightly the inner or hinge end of said door plate whereby it swings under and is disposed under vertical front wall 10*g* when said door is closed and in closed position respectively. Extending through said outer plate 20*a* are bolts 20*d* passing respectively through anchoring plates 20*e*, the same being provided with nuts 20*f*. The inner portion of said bolts, as well as said anchoring plates and nuts are embedded in said insulating block 20*b*, which latter is thus securely held in position. The sides of said insulating block 20 incline inwardly slightly to fit into and tightly close the open end 16*c* of the inner unitary insulating member. Said door is provided with a lock 21. Said lock is positioned at the open end of said U-shaped plate 20*c* and is provided with a combination dial and handle 21*a* and with a bolt 21*b*. When in closed position, said bolt extends through groove 16*g* and under frame 18, thus holding said door member in closed position.

A box or drawer 22 is provided and is slidably fitted into lining 17. Said box is open at its top and is preferably made of metal and is provided with a handle 22*a* at its front side. Said box is adapted to receive various items or articles of value to be placed within said casing for safe keeping.

In operation, members 12 are bolted to a base 14, such as a wooden or concrete floor, as shown in Figs. 2 and 3. Members 11 rigidly fixed to members 12 are adapted to receive portions 10*f* of casing 10, said casing thereby being longitudinally slidable on said members 11. When moved the full length of members 11, so that casing 10 is vertically over members 11 and thus in normal position, a headed bolt or pin 15 is placed through opening 10*h* and is received in opening 12*b* thus preventing any longitudinal movement of said casing 10. Casing 10 of course cannot be lifted vertically due to portions 10*f* in members 11.

Money or valuables are placed in box or drawer 22, said box being disposed as described inside the unitary insulating chamber 16. The door or cover 20 is then placed in closed position. Member 20*b* fits into the open end 16*c* of the unitary insulating member and the outer plate member closes tightly the open end 10*e* of the casing 10. The unitary insulating member 16 and the block 20*b* fitting therein form a complete insulating wall about box or drawer 22 so that the same is perfectly insulated. The contents of box 22 would thus not be damaged in case of fire. The walls of member 16 as stated are continuous and great safety is thus provided against fire.

From the above description it will be seen that I have provided a compact and conveniently handled safety box which can easily be placed in an obscure or inconspicuous place. It is readily fastened to a floor member and the bolts holding the safety box in secure position are not accessible to anyone tampering with same. The device can conveniently be placed in a closet in a residence. The inner chamber is entirely enclosed with fireproof or fire resistant substance. This, as stated, adds greatly to the safety of the contents of box 22. This safety box is made up of relatively simple parts and can be produced to sell at a price that will extend out to a far reaching market. This device has been amply tested in actual practice and found to be very successful and efficient. It has been subjected to high temperatures for considerable periods without damage to the contents of box 22. The device is being commercially made and is a great boon to farmers, city residents and office proprietors.

It will of course be understood that various changes may be made in the form, details, arrangement and proportions of the parts, without departing from the scope of applicant's invention, which generally stated, consists in a device capable of carrying out the objects above set forth, in the parts and combinations of parts disclosed and defined in the appended claim.

What is claimed is:

A safety box structure having in combination, a metal casing substantially rectangular in transverse section having a chamber therein provided with an opening at one end, a rigid integral box-like insulating member fitted in said chamber provided with an opening at the same end as the open end of said casing, said casing having a narrow flange about three sides of the open end portion of said casing adjacent the edge portions of said member at its open end, a narrow front wall extending across the fourth side of said open end portion of said casing, a door fitted in said open end portion of said casing and hingedly secured to said front wall, a block of insulating material secured to the inner side of said door for sealing the opening of said member, said member having an enlarged opening at its end portion with outwardly diverging walls, said block of insulating material having inwardly inclined walls adapted to fit in said opening having outwardly diverging walls and a U-shaped metal plate disposed between said block and said door having an extension at the hinged end of said door and arranged to be disposed beneath a side portion of said front wall when said door is in closed position.

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