Dec. 15, 1931. J. RAUWALD 1,836,814

WALL SAFE

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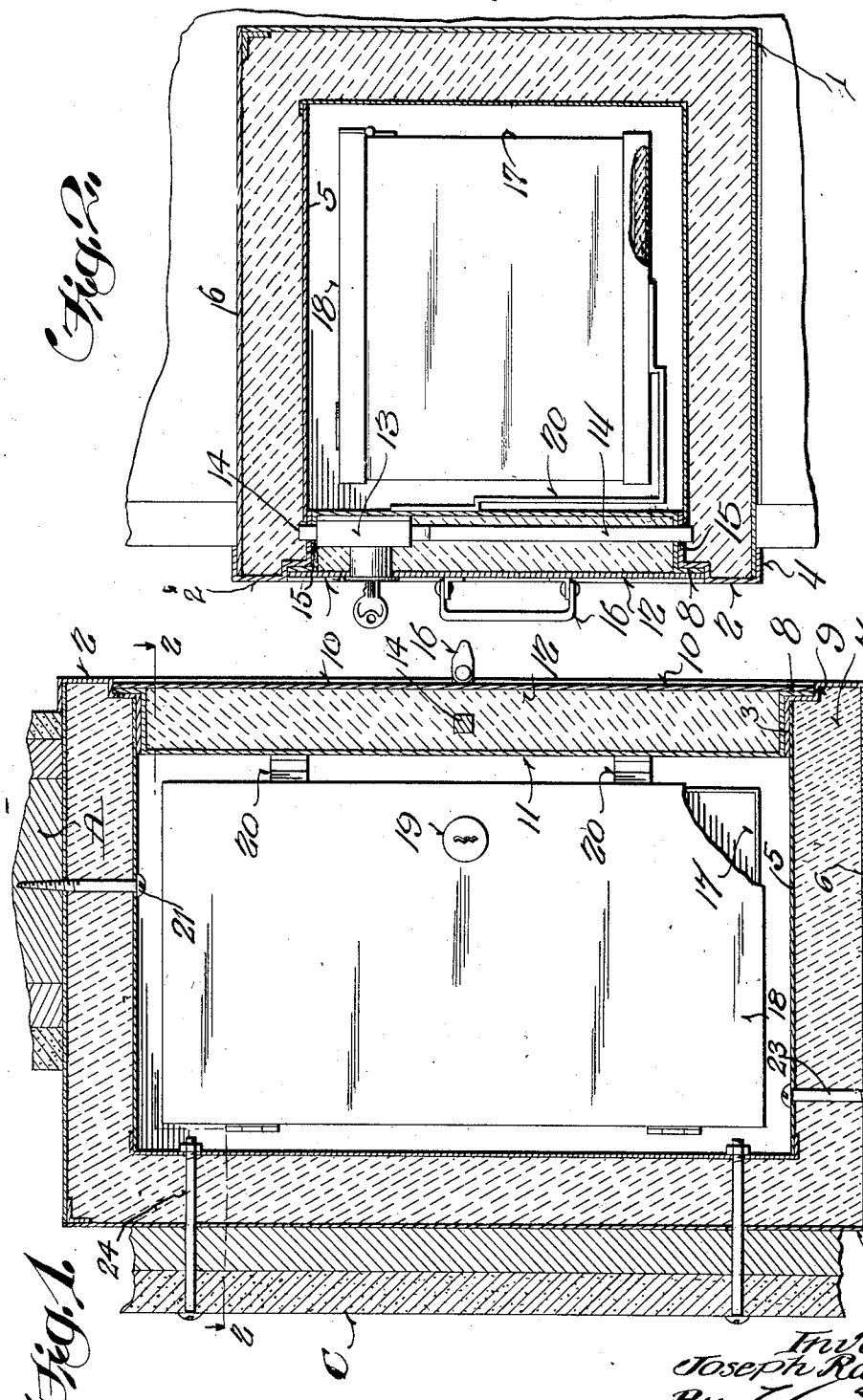


Fig. 2.

Fig. 1.

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WALL SAFE

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This invention pertains to wall safes, and more particularly to a small, light, fire-proof safe for use in residences and the like.

The invention has primarily for its object the provision of a comparatively inexpensive and exceedingly strong structure of the foregoing character in which maximum fire protection is afforded for the storage receptacle by the provision of both fire-proof insulation and a surrounding air space.

A further object resides in the provision of a safe with a removable door to which the storage compartment is attached, the latter being spaced from the door and the inner walls of the outer casing, whereby the same is insulated by a surrounding air space and is entirely removable with the door to facilitate access to its contents.

A still further object is to provide a wall safe which may be securely mounted within a wall or floor of any construction, or which may be attached to the face of a wall or support without mutilating the same.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the novel construction, combination and arrangement of parts substantially as hereinafter described and more particularly defined by the appended claims, it being understood that such changes in the precise embodiment of the herein disclosed invention may be made as come within the scope of the claims.

In the accompanying drawings is illustrated one complete example of the physical embodiment of the present invention constructed according to the best mode so far devised for the practical application of the principles thereof.

In the drawings, Figure 1 is a transverse section through a safe constructed in accordance with the present invention, with a schematic showing of various ways of attaching the same within a wall or floor, or to the face of a wall;

Figure 2 is a section taken on the line 2—2 of Figure 1.

Referring now more particularly to the accompanying drawings, the numeral 1 designates an outer casing comprising a front frame 2, preferably stamped from sheet material to provide an inexpensive and rigid structure. The frame 2 is provided with inturned flanges 3 and 4 respectively, the inner flanges 3 having secured thereto, by welding or other suitable means, the inner walls 5 of the outer casing 1, while the flanges 4 have secured thereto the outer walls 6. Thus, it will be seen that the casing 1 comprises spaced inner and outer walls connected by means of the front frame 2 and, as indicated in Figure 1, the spacing between the walls 5 and 6 may be filled with insulating material 7, preferably asbestos, cement, or its equivalent.

The face of the frame 2 adjacent its inner peripheral edge is provided with a recessed portion 8 forming a shoulder 9 for the flush reception of a door 10. The door 10 is also formed of sheet material and comprises inner and outer walls 11 and 12, respectively, the inner wall 11 being provided with a peripheral flange which is secured to the outer wall 12, preferably by welding.

It will be apparent from the drawing and the foregoing description that the peripheral flange thus formed on the door 10 will abut the depression 8 formed in the face of the frame 2 to provide a flush front for the safe, which provides a neat, attractive appearance for the exposed portion of the safe.

Positioned between the walls 11 and 12 of the door is a conventional lock 13 including the bolts 14 which project through the sides of the door into recesses 15, formed in the inturned flange 3 of the frame 2, to securely lock the door in position. A suitable handle 16 is provided for the door to facilitate its removal.

As best illustrated in Figure 2, the safe is provided with an inner receptacle 17 having a hinged cover 18 provided with a conventional lock 19. It will be noted from the drawing that the receptacle 17 is spaced from the inner walls 5 of the outer casing and also from the inner wall 11 of the door 10 by means of the brackets 20.

Referring again to Figure 2, it will be noted that the brackets 20 are secured to the inner wall of the door 10 for a limited portion, and thereafter spaced from both the door and

the inner receptacle to the limited portion secured to one of the walls of the inner receptacle. The purpose of this arrangement is to reduce the conduction of heat from the door 10 through the brackets 20 to the inner receptacle, in the event of fire.

It will also be noted that in addition to the fire-proof insulation provided between the inner and outer walls of the casing 1, the storage receptacle 17 is further insulated by the air space completely surrounding the same.

As stated in the objects, the present invention contemplates attachment within a floor or wall, or to the face of the wall. In the schematic showing in connection with Figure 1, A designates the upright studding present in conventional plaster walls. In such instance, where the safe is built into the wall, the same is attached to the studding A by means of the screws 21 passing through the inner and outer walls 5 and 6 of the casing 1.

In this particular form of attachment, as illustrated, it will be noted that the inner end of the safe projects beyond one side of the wall, but in such instances it is contemplated that the safe will be mounted in a wall, one side of which forms a cabinet or closet; thus the protruding portion of the safe will not be objectionable.

Should it be desired to insert the safe in a floor, the flooring 22 is cut out and the casing positioned between the floor joists B and secured thereto by screws 23 passing through both the inner and outer walls 5 and 6.

In the event of attachment to the face of the wall, the bolts 24 are preferably employed in order to provide the necessary rigidity, the bolts passing through the lathe and plaster C and the inner and outer walls 5 and 6, with the retaining nuts on the inner ends of the bolts, thus rendering them inaccessible from the outside.

From the foregoing description taken in connection with the drawings, it will be seen that a comparatively simple and inexpensive fire-proof safe has been provided, which may be attached to any structure of wall or floor and which offers maximum protection against fire, in that the storage receptacle is insulated by a shell of fire-proof material in addition to a complete surrounding air space.

It will also be appreciated that the cost of manufacture is materially reduced and access to the contents of the storage receptacle facilitated by the provision of a removable door, which carries the storage receptacle, thus permitting the same to be removed and transported from place to place, when desired, rather than making it necessary to manually remove the individual contents of the safe, which is customary in other structures where a hinged door and permanently attached receptacle is provided.

While no particular emphasis has been laid upon the specific construction or manner of assembling the walls comprising the outer casing 1, it is preferred to construct the same of sheet metal welded together to provide an inexpensive and yet rigid structure. However, it will be understood that such details of construction may be varied without departing from the invention.

I claim:

1. A wall safe comprising an outer casing formed of spaced walls having fire-proof insulating material therebetween, a removable door for said casing, and an inner receptacle spaced at all points from said door and the inner walls of said outer casing, and spaced brackets connecting said inner receptacle with said door and to hold the receptacle in its spaced position to provide for removal of said receptacle with said door.

2. A wall safe consisting of a front frame having inwardly directed flanges, inner and outer spaced walls secured respectively to said flanges and having fire-proof insulating material therebetween, a hollow closure adapted to seat in said front frame, a lock positioned between the walls of said closure for securing the same to said frame, an inner receptacle spaced from said closure and the inner walls of said casing, and a pair of brackets connecting said receptacle to said closure for holding the receptacle in its spaced position.

In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee, in the county of Milwaukee and State of Wisconsin.

JOSEPH RAUWALD.