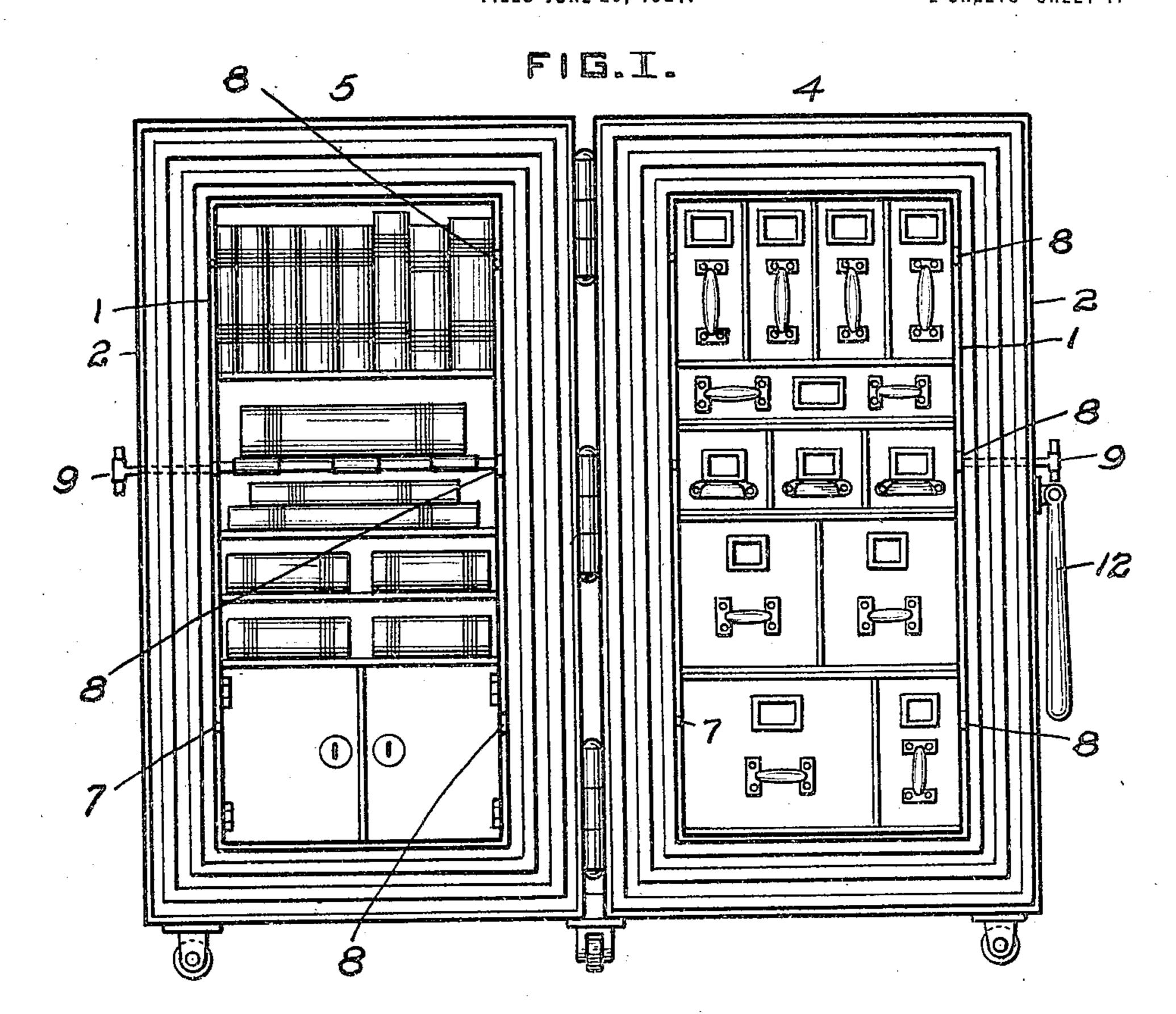
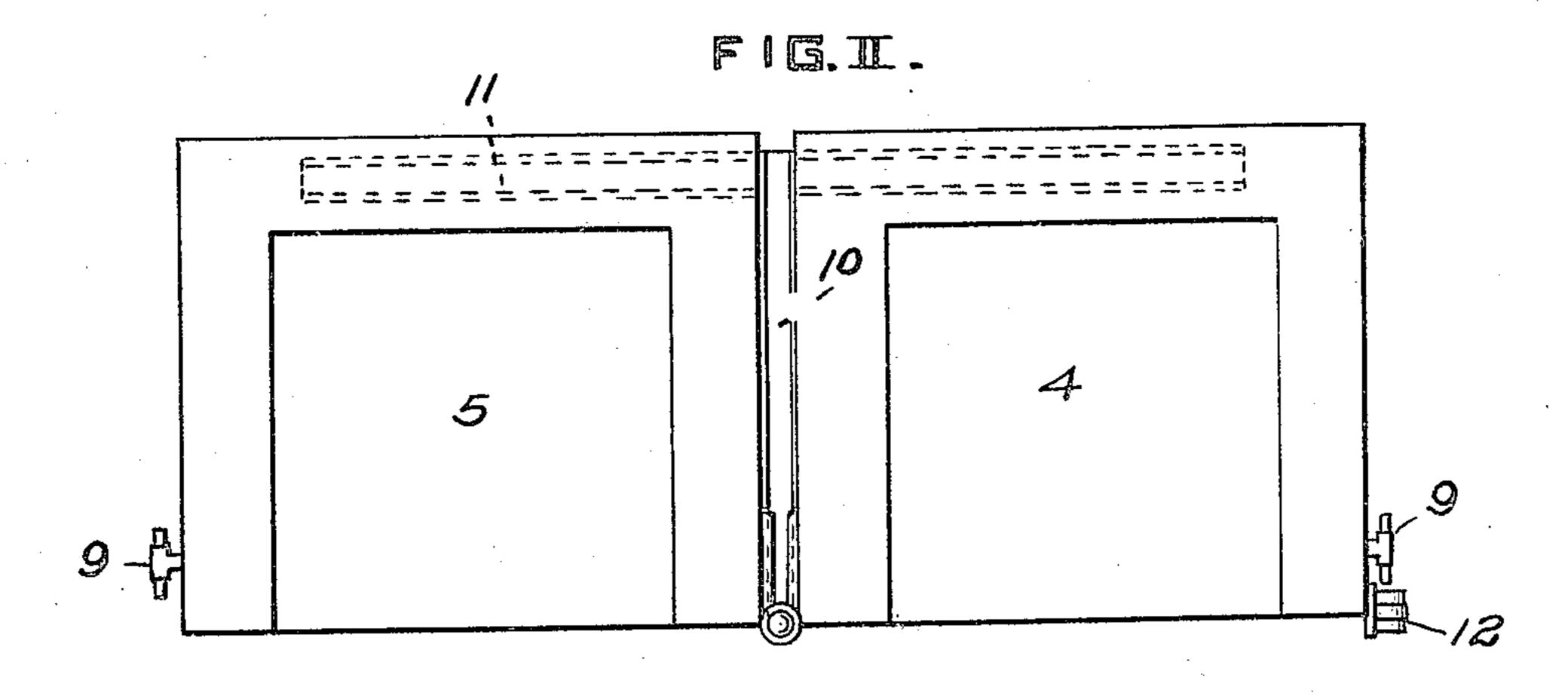
T. McG. AIKEN.
SAFE.
FILED JUNE 20, 1921.

2 SHEETS-SHEET 1.



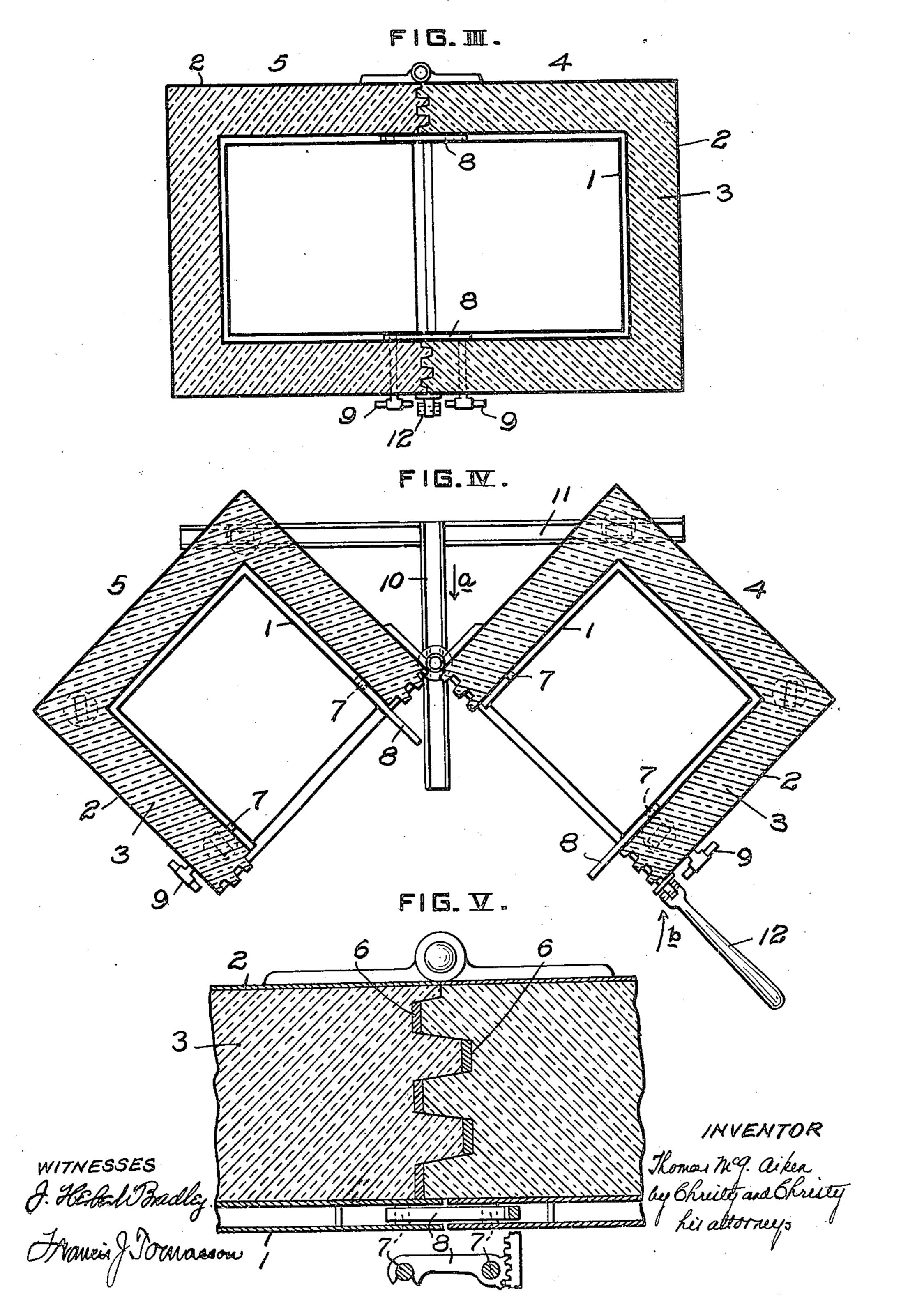


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2 SHEETS-SHEET 2.



UNITED STATES PATENT OFFICE.

THOMAS McG. AIKEN, OF PITTSBURGH, PENNSYLVANIA.

SAFE.

Application filed June 20, 1921. Serial No. 478,814.

To all whom it may concern:

Be it known that I, Thomas McG. Aiken, tutes the closure for the other. residing at Pittsburgh, in the county of Alle- The walls, as in all safes, are of substangheny and State of Pennsylvania, a citizen tial thickness. The meeting edges of the two following is a specification.

15 view of the same safe in the same position, observed of this tengue and groove forma- 70 the safe stands; Fig. V is a view in detail of the side walls of the grooves is a practi-25 same plane with Fig. III and showing the of steel or faced with steel) will preferably 80 Fig. III.

sists in a safe composed of two parts of cated at 6 in Fig. V, lying, when the safe tary each of the other, each constituting a receptacle for articles to be stored and protected, the two halves being movable, alternately to close one upon the other, like the 35 valves of a shell and to constitute each the pins 7, over which suitable clamping mem- 90 closure or door of the other half, and to open to a position in which both halves are accessible for the introduction of and removal one of two companion pins 7 and are swung consists in the formation of the meeting handles 9. I preferably have a number of 95 edges of the two parts or halves, in the lock- these clamping devices arranged at properly ing device, and in the means for controlling spaced points along the vertical meeting and guiding the parts or halves in opening and closing.

built of inner and outer plates 1 and 2 of steel with interposed filling 3 of heat-insu-50 lating material.

Comparison of Figs. I-IV of the drawings will show this safe to consist of duplicate handle (9) through operative connections complementary halves 4 and 5 which may stand open and accessible, as indicated in of such detail is obvious. It will be observed 55 Figs. I and II, or closed, as indicated in that the locking mechanism, both at front 110

Fig. III. When closed, each half consti-

5 of the United States, have invented or dis- halves are provided with complementary 60 covered certain new and useful Improve- tongue and groove faces. Ordinarily the ments in Safes, of which improvements the meeting edges of wall and door of a safe are stepped. Compared with such a stepped My invention relates to the construction of engagement, the engagement of the edges 10 safes. I have developed it in application of my safe parts, characterized by a series 65 to a filing safe of light-weight class. of tongues and grooves intermeshing and In the accompanying drawings Fig. I is clamping is manifestly a more secure union a view in front elevation of a safe of my and a union more completely fire resistant. invention, standing open; Fig. II is a plan Referring particularly to Fig. V, it is to be viewed from above; Fig. III is a view in tion that clearance may be provided for horizontal section of the safe when closed; opening and closing by forming tongues Fig. IV is a view in horizontal section of and grooves with tapering side walls—a feathe safe when in intermediate position, be- ture generally advantageous; and if, as in tween closed and open, and showing also the case illustrated, the two safe halves be 75 in plan guides for controlling the move- hinged so as to open and close on relatively ment of the parts over the floor upon which arc-shaped lines of movement, the inclining to larger scale, being a sectional view on the cal necessity. The meeting edges (which are parts in the same relative positions as in be provided with suitable packing, and this packing will ordinarily take the form of My invention, stated in general terms, con- gaskets of such material as asbestos, indiequal size and proportion, and complemen- is closed, between the tips of the tongues 85 and the bottoms of the grooves.

Locking mechanism is indicated in Fig. V, where, across a narrow space formed for the purpose in the walls of the structure extend bers 8 may make engagement. Conveniently these clamping members are pivoted each on of articles. More minutely the invention to and from clamping or locking position by edges, both at the front and at the back, as indicated by the repeated numerals 8, Fig. The safe shown in the drawings will be I. As shown in Fig. I the clamping mem- 100 recognized by those acquainted with the sub- bers for the front edges are borne by one ject as a light-weight safe, its walls being of the two safe parts (4) while the clamping members for the rear are borne by the other part (5). This is merely a matter of convenience. All the clamping members borne 105 by one part may be operated by a single which are not shown, because the supplying

burglars.

in any preferred manner. Ordinarily these and of door expand unequally and edges sepastructures stand upon the floors of build-rate which when cold had met perfectly. The ings, resting upon casters to facilitate being second chief advantage of my improved safe moved about. Since my invention in service is the economy of space incident to its use. 10 involves the movement of one at least of the The doors of safes now commonly in use oc- 75 complementary safe halves, with its con- cupy space, they must have space in which tents, suitable plates or tracks may be laid to swing and space in which to remain while and casters in which friction is reduced to a the safe is open. My safe, in the sense that minimum may be provided, to facilitate such it has no door, is economical of space. Of 15 movement. The two halves may be quite course it must have room for opening, but 80 independent one of another, except when once open there is no space occupied by the united by locking mechanism, and the two then useless door. Furthermore, given two halves may be separable merely by being safes of equal dimensions, one of usual conrolled apart, and the two halves may be sep-struction, the other of the construction of 20 arated to indefinite distances, or the direc- my invention, my safe, though half as deep 85 tion and range of relative movement may has double the opening of the other. Let be defined and controlled by suitable guides, this fact be taken in connection with the adrunways or stops. Conveniently, the rela- ditional fact that a square shape in cross tive movability of the halves may be con-section as distinguished from an elongate 25 trolled in the manner shown in the draw-shape is imposed on safes, not as the most 90 ings. Here the two halves are hinged to- advantageous shape from the point of view 30 groove formation of the meeting edges of this regard will be apparent. Finally, the 95 35 while the other remains stationary; but I difficult and dangerous operation than to 100 to the supporting floor. To this end two dinary safe. guides are laid down, both of them straight It may, in some instances, be desirable to channels, in one of them, 10, rests a caster form the two safe parts of different depth; bearing the hinged corners of the two halves, in this case there will be some small depar-1105 a caster arranged on vertical line beneath ture from the ideal construction already dethe hinge, and the other guide, 11, extends scribed; the essential feature of similarity at right angles across the rear end of the in other respects will, however, remain, and guide first mentioned, and in it rest the cas- the departure from the ideal will be merely 15 ters under the outer rear corners of the two a compromise of conveniences. Parts of 110 safe halves. With this explanation, and varying depth may be made, and mated as with the drawings in view, it is manifest desired. Fig. III it may be opened to the position shown in the drawings, it may be noted again 50 shown in Fig. IV and thence to the position that the safe walls, here shown to be formed 115 shown in Fig. II by an initial forward pull of exterior plates with a contained filling by the arrow a Fig. IV, and an ultimate made as one wall, of metal plates throughrearward push at the outer edge, in the di- out, or of other material.

55 rection indicated by the arrow b. A long I claim as my invention: handle 12 may be provided, if desired, to af- 1. A fire-resistant, burglar-resistant, doorford added leverage, and such a long handle less, twin filing safe composed of two units, may of course be pivoted to hang out of the way when not in use.
The advantages of my invention are

several: first, the safe constructed in the being built of inner and outer steel plates manner described is fire-resistant in superior degree,—this by virtue of the fact that its halves are complementary parts, equal in di-65 mensions and alike in the material of which

and rear, is arranged at the inner side of the they are composed. Flames and heat frethick wall of the safe, where it is remote quently gain access to safes which close with from disturbance by heat and from access by apparently abundant security, consequent upon the fact that, under extreme temper-The safe halves may be closed and opened ature conditions, the unequal bodies of safe 70 gether, and consequently relative movement of accessibility, but as affording greatest is upon circular lines centering in the hinge; protetion against fire, and then the absolute and, as has been explained, the tongue and advantage of my improved construction in the two halves will be minutely shaped to safe of my invention is relatively burglar permit of such movement of the halves on proof, for the reason that two members of circular lines. One half may swing (trav- equal weight, or approximately so, have to elling upon properly laid tracks, if need be) be blown apart, and that is a much more have shown both halves swinging relatively blow open the relatively light door of an or-

that when the safe is closed, as shown in Having now described in detail the structure on the center line in the direction indicated of heat-insulating material between may be

both chambered internally and in service meeting edge to edge and constituting closures each for the other, the walls of the safe 125 and interposed heat insulating material, means for clamping the units in positions of relative closure such means consisting of a pivoted clamping member borne by one of 130

said units arranged interiorly of the heat insulating body of the safe and adapted to swing adjacent to and in a plane parallel to the inner steel plate which constitutes the safe 5 wall, means exterior of the safe wall for swinging said clamping member, and a member borne by the other unit and adapted when the units are closed to be engaged by said clamping member in the range of its 10 swing.

2. A fire-resistant, burglar-resistant, door-less, twin filing safe composed of two symmetrical and complementary units, both chambered internally and in service meeting 15 edge to edge and constituting closures each for the other, and hinged together, the

structure so defined resting on guides, such guides consisting of two rectilinear parts meeting at right angles in the form of a letter T, the safe at its two rear corners resting 20 on and in opening and closing moving along the guide part which constitutes the crossbar of the T, and the point of hinging resting on and moving along the guide part which constitutes the stem of the T.

In testimony whereof I have hereunto set my hand.

THOMAS McG. AIKEN.

Witnesses:

BAYARD H. CHRISTY, Francis J. Tomasson.