S. W. FISH.

SAFE OR VAULT.

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997,785.

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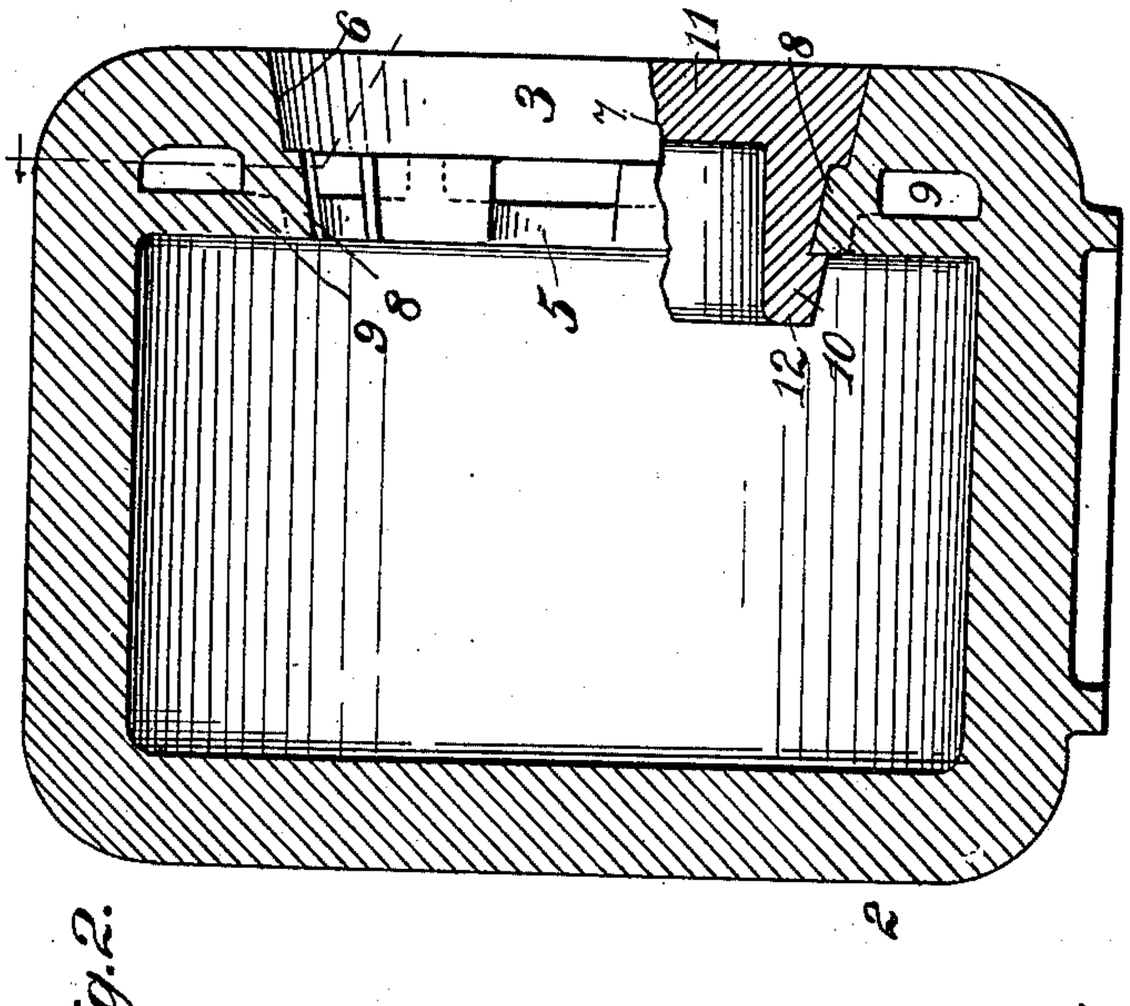

Fig. 2.

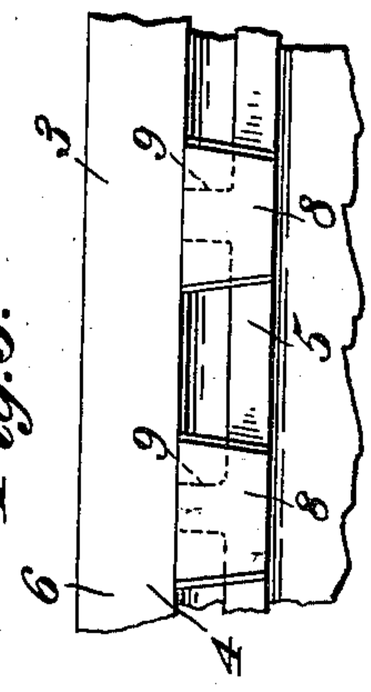

Fig. 5.

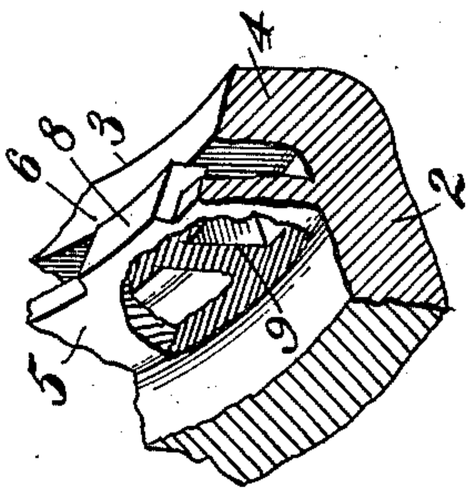

Fig. 4.

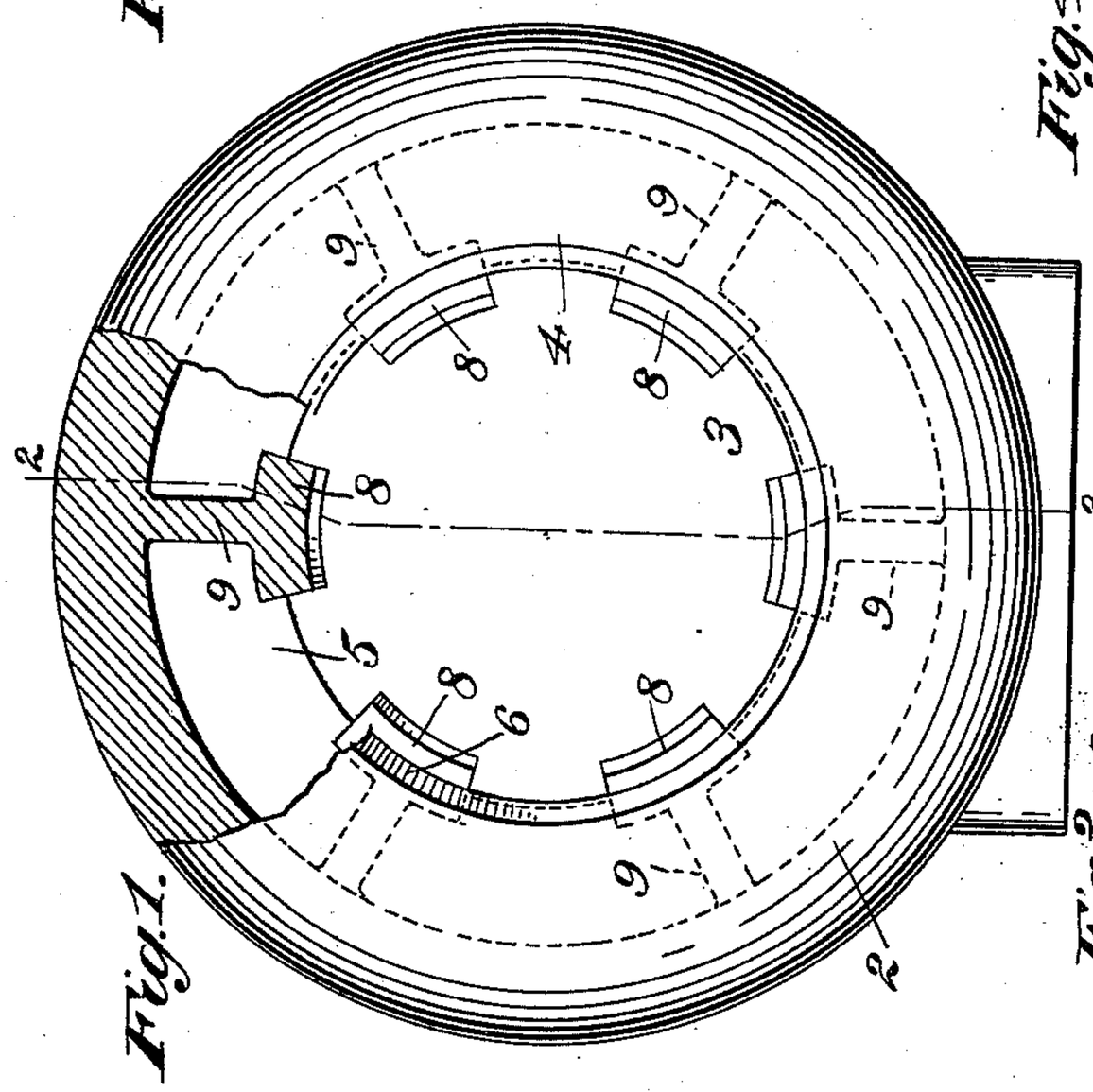

Fig. 1.

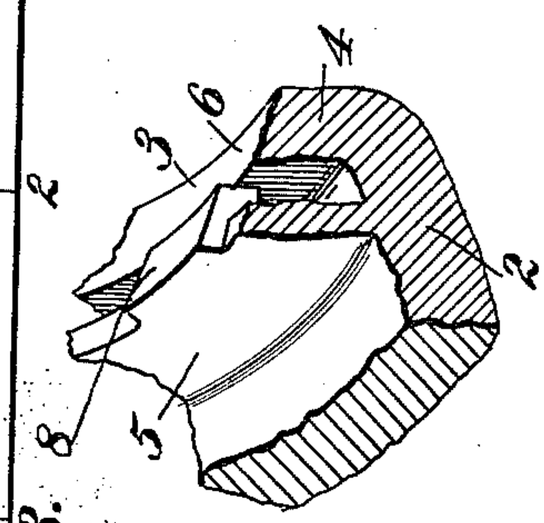

Fig. 3.

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SAFE OR VAULT.

997,785. Specification of Letters Patent. Patented July 11, 1911.

Application filed March 10, 1910. Serial No. 548,489.

To all whom it may concern:

Be it known that I, SAMUEL W. FISH, a citizen of the United States, residing at Plainfield, in the county of Union and State of New Jersey, have invented certain new and useful Improvements in Safes or Vaults, of which the following is a specification.

This invention relates to safes or vaults, and more particularly to safe or vault bodies, the object of the invention being to provide a safe or vault body with an improved form of door holding means without the necessity of providing an inwardly extending flange for carrying such door holding means.

A further object of the invention is the provision of a safe or vault body with door holding lugs integral with the body, but so located that they will be supported at different points, without the necessity of providing an inwardly extending flange for carrying the lugs, and reference is hereby made to my contemporaneously pending application Serial No. 537,645, filed January 12, 1910, and my contemporaneously pending allowed application Serial No. 548,487, filed March 10, 1910, in which different forms of the present improvement are shown.

In the drawings accompanying and forming part of this specification, Figure 1 is a front view of a safe or vault body, with a part thereof broken away and in section; Fig. 2 is a cross-sectional view taken in line 2—2, Fig. 1; Fig. 3 is a detail sectional view of a portion of the body jamb, showing one of the lugs; Fig. 4 is a similar view to that shown in Fig. 3, with a portion thereof broken away and in section to show the manner of supporting the lugs; and Fig. 5 is a plan view of a portion of the jamb.

Similar characters of reference indicate corresponding parts throughout the figures of the drawings.

The safe or vault body 2 may be made of any suitable or desired form, and is provided with a door-way 3 formed by a jamb forming member 4, shown as inwardly extending in the present instance, having in the rear thereof and spaced apart therefrom an inwardly extending flange 5. As the construction is preferably adapted for use with a circular or rotary door the jamb forming member and the inwardly extending flange are of annular formation, and the jamb forming member is provided with a tapered surface 6 for the reception of a tapered rotary door 7.

Located at intervals around the jamb is a plurality of door holding lugs 8 integral with both the jamb forming member and the annular inwardly extending flange, so that the lugs are thus carried and supported by both the jamb forming member and the annular flange at separated points.

For suitably bracing the inwardly extending flange, and also the lugs, integral ribs 9 are provided between the jamb forming member and the inwardly extending flange, these ribs being preferably located at a point where they will also support the lugs, and for this purpose they are shown integral with the lugs, see Fig. 4. The lugs are shown wider than the ribs, see Fig. 1. Thus it will be observed that each lug is carried and supported by not only the jamb forming member, but by the inwardly extending flange, and also by a rib integral with both the jamb forming member and the flange as well as with the side walls of the body.

The rotary door hereinbefore referred to is also provided with lugs 10 coöperating with the body lugs for holding the door against withdrawal.

In practice suitable means will be provided for preventing rotation of the door after it is closed. Any suitable form of door may be used, but in the present instance it is shown as comprising a body 11 having an inwardly extending flange 12.

By forming the body around the door-way in the manner set forth it will be observed that the casting may be made without any regard to the mass of metal around the door-way so that the parious parts of the structure at this point may be maintained substantially uniform, which is desirable when the casting is made of unmachinable metal, such for instance as manganese steel, and heat treated, since it prevents the setting up of undue strains in the casting at this point. This formation also, however, facilitates the forming of the casting even when the structure is made of other forms of metal. The forming of the lugs integral, in the manner shown, is much preferable, but it will be obvious that in view of the manner in which the lugs are supported they could be formed separate and rigidly

secured by bolts to the connecting ribs between the jamb forming member and the inner annular flange, and also to the flange if desired, without departing from the scope of this invention.

I claim as my invention:

1. A safe or vault body having a door-opening provided with a jamb surface, a plurality of door holding means supported rigidly adjacent thereto, and a flange spaced apart from said jamb and supporting said door holding means.

2. A safe or vault body having a door-opening provided with a jamb surface, a plurality of door holding means supported rigidly adjacent thereto, a flange spaced apart from said jamb and supporting said door holding means, and ribs located between said jamb forming member and flange.

3. A safe or vault body having a door-way formed by an inwardly extending member terminating in a jamb surface, a plurality of door holding means supported rigidly adjacent thereto, a flange spaced apart from said jamb and supporting said door holding means, and ribs located between said jamb forming member and flange and also supporting said door holding means.

4. A safe or vault body having a door-opening provided with a jamb surface, a plurality of door holding means integral with said jamb forming member, and a flange spaced apart from said jamb and integral with said door holding means.

5. A safe or vault body having a door-way formed by an inwardly extending member terminating in a jamb surface, a plurality of door holding means integral with said jamb forming member, a flange spaced apart from said jamb and integral with said door holding means, and ribs between said jamb forming member and flange and integral therewith.

6. A safe or vault body having a door-opening provided with a jamb surface, a plurality of door holding means integral with said jamb forming member, a flange spaced apart from said jamb and integral with said door holding means, and ribs between said jamb forming member and flange and integral therewith and also integral with the door holding means.

7. A safe or vault body having a door-way provided with an annular tapered jamb surface and having spaced apart from said jamb surface a flange, and door holding lugs secured in position adjacent to said jamb surface and supported by said flange.

8. A safe or vault body having a door-way provided with an annular tapered jamb surface and having spaced apart from said jamb surface an annular flange, door holding lugs secured in position adjacent to said jamb surface and supported by said flange, and ribs supporting the under side of said lugs.

9. An integral safe or vault body having a circular door-way provided with a tapered jamb surface, an annular flange spaced apart from said jamb surface, and door holding lugs integral with said body and with said flange.

10. An integral safe or vault body having a circular door-way provided with a tapered jamb surface, an annular flange spaced apart from said jamb surface, door holding lugs integral with said body and with said flange, and ribs integral with the body and with the flange.

11. An integral safe or vault body having a circular door-way provided with a tapered jamb surface, an annular flange spaced apart from said jamb surface, door holding lugs integral with said body and with said flange, and ribs integral with the body and with the flange and with said door holding lugs.

12. An integral safe or vault body having a circular door-way provided with a tapered jamb surface, an integral annular flange spaced apart from said jamb surface, and door holding lugs integral with said body and with said flange.

13. An integral safe or vault body having a circular door-way provided with a tapered jamb surface, an annular flange spaced apart from said jamb surface, door holding lugs integral with said body and with said flange, and ribs integral with the body and with the flange and also with said door holding lugs, said ribs being of less thickness than the length of the lugs.

14. An integral safe or vault body having a circular door-way and provided with a tapered jamb surface integral with the body, rearwardly extending lugs, an annular flange integral with the body and extending inwardly thereof and spaced apart from said jamb surface and integral with the lugs at the rear sides thereof.

15. An integral safe or vault body having a circular door-way and provided with a tapered jamb surface integral with the body, rearwardly extending lugs, an annular flange integral with the body and extending inwardly thereof and spaced apart from said jamb surface and integral with the lugs at the rear sides thereof, and ribs integral with the body and with the flange and with said lugs.

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