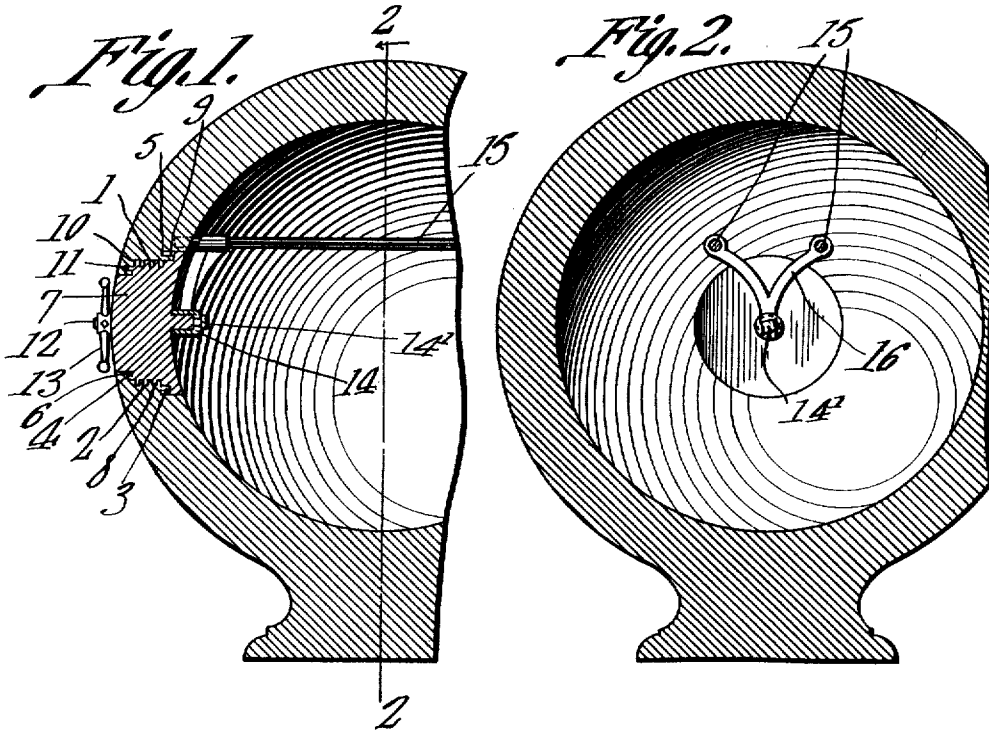


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SAFE.

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1,013,430.

Patented Jan. 2, 1912.



Witnesses

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UNITED STATES PATENT OFFICE.

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SAFE.

1,013,430.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, THEODORE W. NYGREEN, a citizen of the United States, residing at Bellingham, in the county of Whatcom and State of Washington, have invented a new and useful Safe, of which the following is a specification.

This invention relates to safes and more particularly to safe doors.

10 The principal object of the invention is the provision of a safe, preferably of spherical or globular form which is provided, with a threaded opening having one end enlarged and the other end contracted to form binding shoulders, which latter are provided with annular recesses or grooves in the vertical faces thereof, and a threaded door adapted to occupy the opening and having projecting flanges adapted to seat and bind within the annular recesses when the door is moved to closed position.

20 A further object of the invention is the provision of a safe of spherical form having guide rods arranged therein and above the door opening of the safe a threaded door adapted to occupy the opening in the safe, and means slidably mounted upon the guides and pivotally connected with the inner face of the door whereby the door may be revolved to unlock the same and be pushed inwardly of the safe, the said guides supporting the door in open position within the safe.

35 With these and other objects in view, as will appear as the description proceeds, the invention comprises the various novel features of construction and arrangement of parts which will be more fully described and set forth with particularity in the appended claims.

40 Referring to the drawings,—Figure 1 is a fragmentary view of a front to rear section of my improved safe, Fig. 2 is a vertical section taken on the line 2—2 of Fig. 1 looking in the direction of the arrow.

45 Similar characters of reference are used to denote like parts throughout the accompanying drawings and the annexed specification.

50 My improved safe, by reference to Figs. 1 and 2, will be seen as constructed preferably of spherical or globular form and has an opening 1 in the front wall thereof which is provided intermediate its ends with suitable threads 2, the inner and outer ends of the openings 1 being en-

larged and contracted respectively to provide bearing shoulders 3 and 4. The shoulders 3 and 4 are provided in their vertical faces with recesses or grooves 5 and 6 respectively, and extend in the wall of the safe toward the outer face thereof. Arranged to occupy the opening 1 in the front wall of the safe is a door 7 having threads 8 intermediate its ends which engage the internal or female threads 2 of the opening 1. The rear of the door 7 is enlarged circumferentially and provided with a forwardly extending flange 9 which engages and binds in the annular recess 5 surrounding the opening 1, when the door is moved to closed or locked position. The forward or front end of the door is contracted to form an annular shoulder 10 and projecting from the vertical face of the shoulder 10 is a circular flange 11 which engages and binds in the recess 6 when the said door is revolved to closed or locked position.

Projecting forwardly from the center of the outer face of the door 7 is a stud or projection 12 upon which is arranged a handle 13 held in place by suitable means not shown. Projecting rearwardly from the center of the rear face of the door is a bearing lug or projection 14 which is of circular form in cross section and has its free end engaged by a nut 14'.

Arranged within the safe is a pair of spaced horizontally extending guide rods 15, which latter have their ends suitably secured to the inner walls of the safe. Mounted to slide upon the said guide rods is a V shaped hanger 16 which has its lower end provided with a bearing sleeve which surrounds the bearing lug 14 and is securely held in place by the nut 14' on the end of the bearing lug 14.

From the above described construction it will be readily apparent that the handle upon the door may be grasped to revolve the door and disengage the same from the front wall of the safe, the door 7 being moved inwardly of the safe by unscrewing the same, and supported through the medium of the hanger 16 which also moves inward of the safe upon the guide rods 15 with the door 7.

From the foregoing description taken in connection with the accompanying drawings the advantages of construction and method of operation will be readily apparent to those skilled in the art to which

the invention relates, and while I have described the principal operation of the invention, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that such changes may be made when desired as are within the scope of the appended claims.

Having thus fully described my invention what I claim as new is:—

1. A safe having a threaded opening in the wall thereof, a threaded door adapted to occupy the opening, said door having a bearing lug on the inner face thereof, a guide rod arranged transversely of the safe, and a hanger slidably mounted on the guide rod and connected with the said bearing lug of the door to support the door inward of the safe in open position, said door being revolvable relative to the hanger.
2. A safe having a threaded opening in the front wall thereof, a threaded door adapted to occupy the said opening, a handle connected to the outer face of the door, said door having a bearing lug on the inner face thereof, a pair of spaced horizontally extending guide rods arranged in the safe above the opening, and a V shaped hanger

slidably mounted upon the said guide rods and connected to a lug on the inner face of the door to support the door for rotation inward of the safe in open position.

3. A safe having an opening in the front wall thereof and provided with threads intermediate its ends, the inner and outer ends of the opening being enlarged and contracted respectively, to provide bearing shoulders, each having an annular recess formed in the vertical wall thereof, a door threaded intermediate its ends, the inner and outer ends thereof being enlarged and contracted respectively, to provide bearing shoulders, each having a circular projecting flange adapted to seat and bind within the respective recesses when the door is revolved to closed locked position, and means to support the door inward of the safe in open position.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

THEODORE W. NYGREEN.

Witnesses:

JULIUS ALBERG,
F. H. FARNHAM.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."