

No. 789,217.

PATENTED MAY 9, 1905.

W. H. HOLLAR.
BOLT FRAME FOR SAFES OR VAULTS.
APPLICATION FILED DEC. 5, 1900.

FIG. 1.

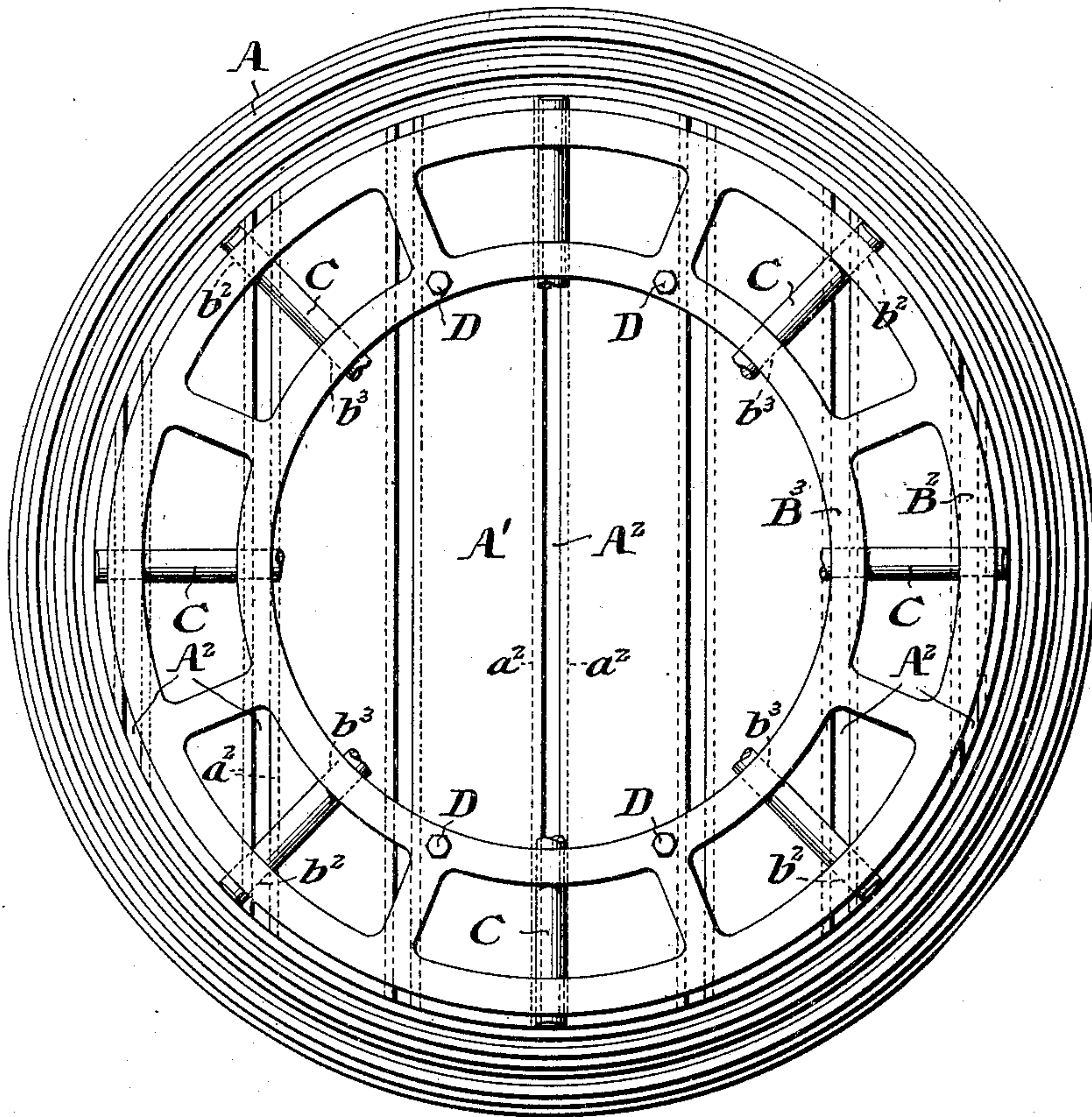
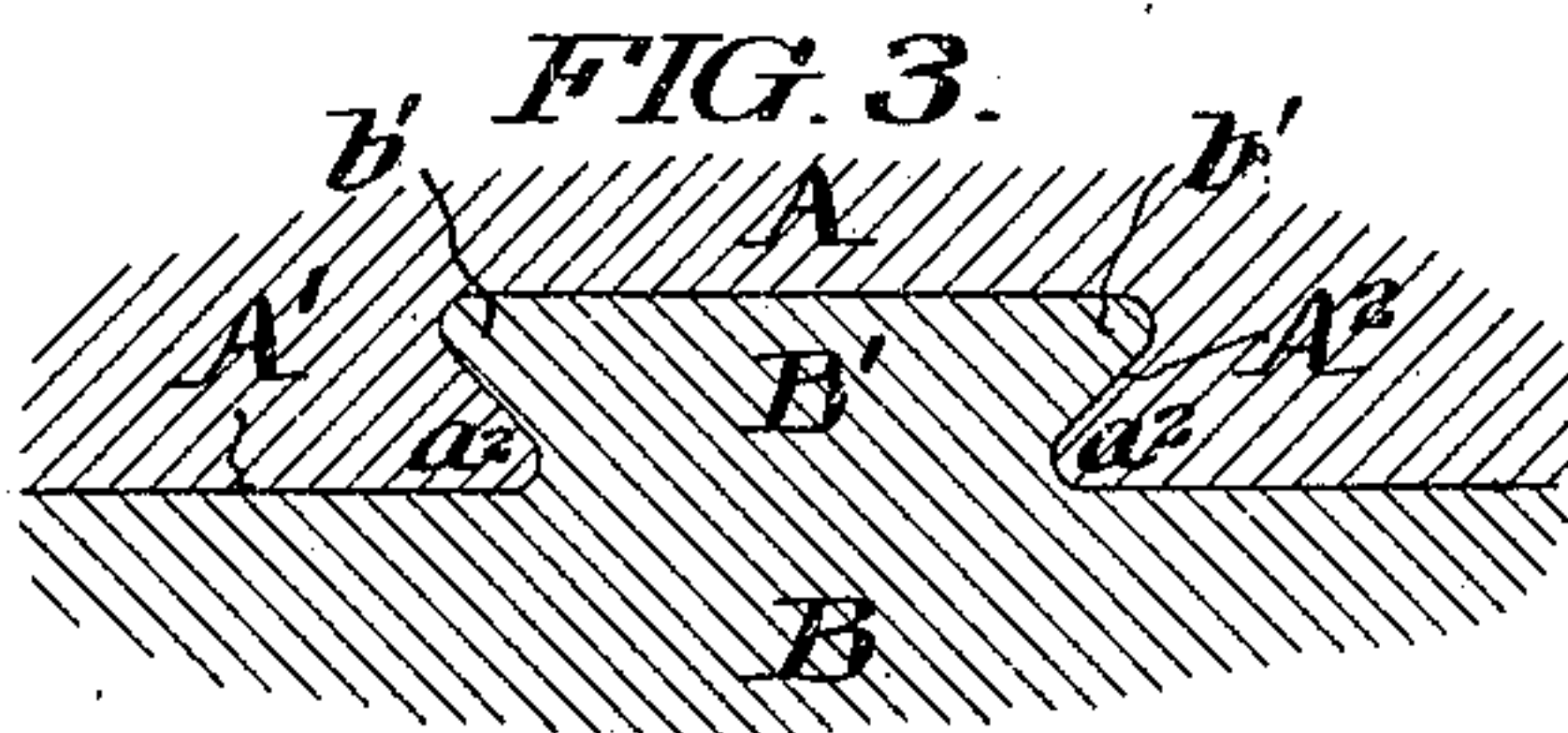
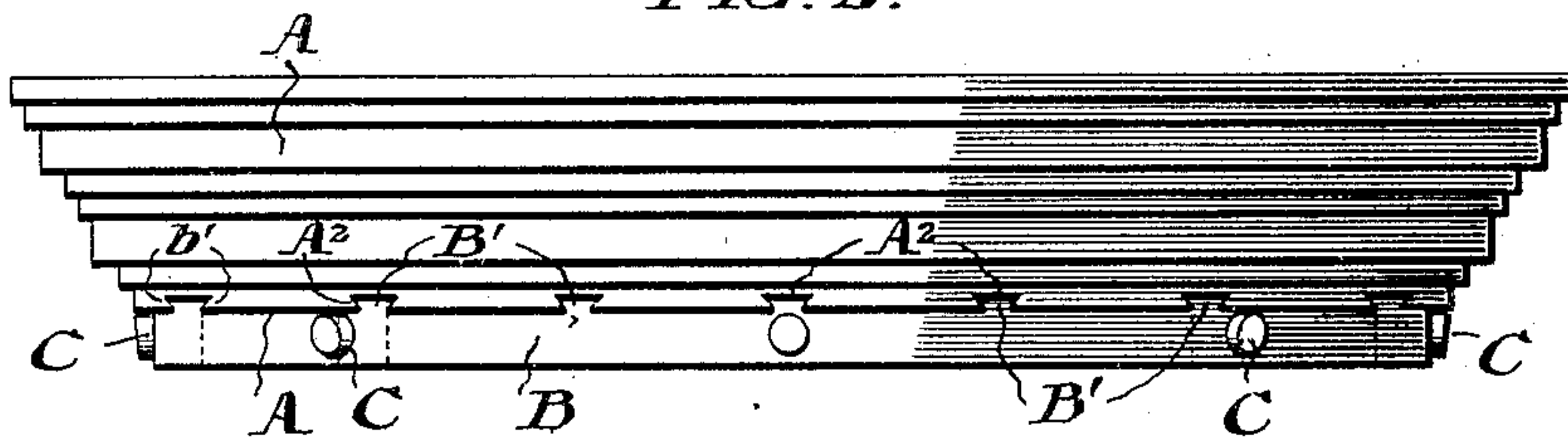


FIG. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM H. HOLLAR, OF PHILADELPHIA, PENNSYLVANIA.

BOLT-FRAME FOR SAFES OR VAULTS.

SPECIFICATION forming part of Letters Patent No. 789,217, dated May 9, 1905.

Application filed December 5, 1900. Serial No. 38,777.

To all whom it may concern:

Be it known that I, WILLIAM H. HOLLAR, of Philadelphia, in the State of Pennsylvania, have invented certain new and useful Improvements in Bolt-Frames for Safes or Vaults, whereof the following is a specification, reference being had to the accompanying drawings.

My present improvements relate to that portion of a safe or vault structure in which the slide-bolts of the locking mechanism are directly mounted for reciprocation. As ordinarily constructed, the framework for the purpose specified is composed of a plurality of separate and independent bars assembled upon and separately attached to the inner face of the safe or vault door and only united by the body of said door. Consequently when said ordinary construction is employed the precise adjustment of the boltwork must necessarily be deferred until the door is erected and the aforesaid separate bars of the bolt-frame are assembled thereon.

My invention provides a bolt-frame which is a unitary structure distinct from the door and comprising inner and outer walls connected in integral relation, said frame being provided with alined bolt-bearings in said walls and means to secure said frame to the door, as hereinafter described.

My invention comprehends the various novel features of construction and arrangement hereinafter more definitely specified and claimed.

In the accompanying drawings, Figure 1 is an inner face view of a circular door to which is applied a unitary bolt-frame conveniently embodying my invention. Fig. 2 is a top plan view of the structure shown in Fig. 1. Fig. 3 shows in outline my preferred form of undercut rib and slideway.

Referring to Figs. 1 and 2, A is the circular body of the door whose inner face A' is provided with a plurality of parallel channels or slideways A², comprising oppositely-undercut parallel edges a². The unitary bolt-frame B is provided with a plurality of parallel ribs B', comprising oppositely-undercut parallel edges b', accurately ground or otherwise fitted to slide in said channels A², as in-

dicated in Fig. 3. The annular walls B² B³ of said frame bridge the door from channel to channel and connect the frame-ribs in rigid relation, thus insuring absolute alinement and registry of the ribs in their respective channels. Said frame-walls B² B³ are respectively provided with bearings b² b³ for the slide-bolts C of the locking mechanism, and the rigid maintenance of said bearings in proper registry is absolutely determined by the unitary relation of the portions of the frame comprising them.

It is to be understood that in the operation of my invention the door is manufactured with channels arranged to receive the bolt-frame, and when erected said frame is slid into its predetermined position and secured, the absolute registry of all of the slide-bolts being thus assured without the laborious assembling and fitting of parts at the place of erection required by the ordinary methods of construction before described.

It is to be understood that the interlocked undercut edges of the door-channels and frame-ribs effect such a union between the door and frame as to prevent their separation by any force applicable to the door when in position; yet the arrangement described permits the frame to be readily removed from the door for repairs, &c., by relative movement in the direction of the length of said channels and ribs, accidental displacement of the frame upon the door in said direction being normally prevented by the bolts D or other convenient fastening devices.

I do not desire to broadly claim the use of undercut channels and ribs in safe or vault construction, but do not desire to limit myself to the precise construction and arrangement described, as it is obvious that various modifications may be made therein without departing from the essential features of my invention.

I claim—

1. A unitary bolt-frame for a safe or vault, comprising a bridge portion composed of inner and outer walls, connected in integral relation by a plurality of webs; and, alined bolt-bearings in said walls, substantially as set forth.

2. A unitary bolt-frame for a safe or vault, comprising a plurality of parallel ribs provided with oppositely-undercut parallel edges; and a bridge portion of said frame composed
5 of inner and outer walls connected in integral relation by a plurality of webs; and, alined bolt-bearings in said walls, substantially as set forth.

3. A unitary bolt-frame for a safe or vault,
10 comprising a bridge portion composed of inner and outer annular walls; a plurality of webs connecting said walls in integral relation; and radially-alined bolt-bearings in said walls, substantially as set forth.

15 4. A unitary bolt-frame for a safe or vault, comprising a bridge portion composed of inner and outer annular walls; a plurality of webs connecting said walls in integral relation; radially-alined bolt-bearings in said
20 walls; and, a plurality of parallel ribs provided with oppositely-undercut parallel edges

upon one face of said frame and in integral relation with the walls thereof, substantially as set forth.

5. In a safe or vault, the combination with 25 a circular door whose inner face is provided with a plurality of slideways having oppositely-undercut parallel edges, parallel with a diameter of the door; of a unitary bolt-frame comprising a plurality of parallel ribs pro- 30 vided with oppositely-undercut parallel edges fitted to the slideways in said door; a bridge portion of said frame composed of inner and outer annular walls in integral relation with said ribs; webs transversely connecting said 35 walls in integral relation; and radially-alined bolt-bearings in said walls, substantially as set forth.

WILLIAM H. HOLLAR.

Witnesses:

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