A. L. ADLER.

HINGE FOR DOORS.

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997,433. Patented July 11, 1911.

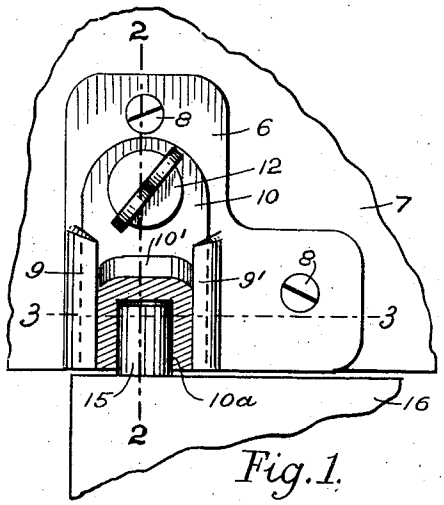

Fig. 1.

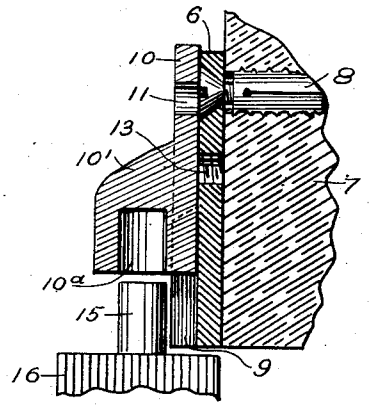

Fig. 2

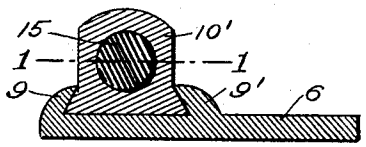

Fig. 3.

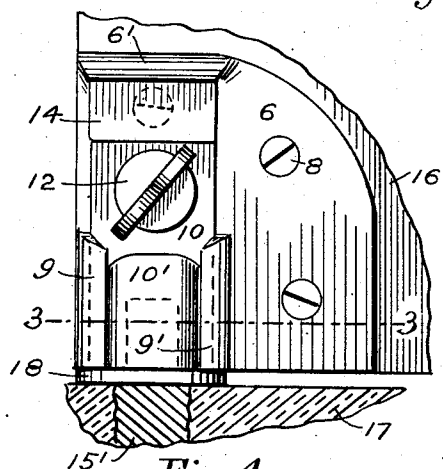

Fig. 4

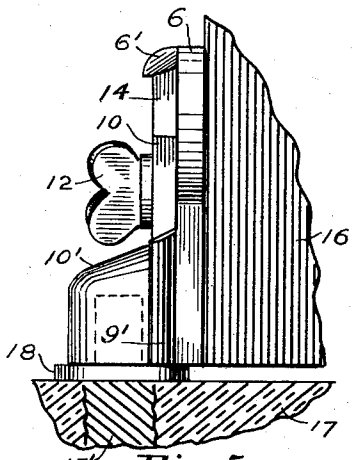

Fig. 5.

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HINGE FOR DOORS.

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To all whom it may concern:

Be it known that I, ABRAHAM L. ADLER, a citizen of the United States, and resident of the city, county, and State of New York, have invented certain new and useful Improvements in Hinges for Doors, of which the following is a specification.

My invention relates to hinges for doors, more particularly adapted for vaults, mausoleums and the like, the object being to produce a hinge in which the socket is removably positioned with relation to the pin, for the purpose of "hanging" or removing the door quickly and yet provide a substantial and durable pivoting means.

In vaults, mausoleums and other buildings of granite or solid stone, metallic doors are generally used at the entrance, though slabs of stone are also occasionally used for a similar purpose. Owing to the weight of such doors, pins or sockets are set into the sill, and sockets, for pins at the top of the door, are fastened to the stone work; upon these two bearings the door is journaled, the door however being required to be blocked up in position during the time that these bearings are fastened. If the door is to be removed for any reason, the entire pivoting means must be entirely removed. My invention overcomes this method of hanging such doors.

In the accompanying drawings, Figure 1 is an elevation of my improved hinge when placed at the top of a door, the socket being shown in section on line 3—3 of Fig. 3. Fig. 2 is a central sectional view on line 2—2 of Fig. 1, the socket plate being raised. Fig. 3 is a sectional view on line 3—3 of Figs. 1 and 4. Fig. 4 is an elevation of the hinge placed at the bottom of a door, and Fig. 5 is a side elevation of Fig. 4.

Similar reference characters denote like parts in the several views.

When used at the top of the door, a plate, 6, is fastened to the stone work, 7, by expansion bolts, 8, or in any preferred manner. The plate is provided with two guide ribs, 9, 9′, in which a socket plate, 10, with a socket, 10′ is adjustably placed, the edges being beveled for that purpose; the socket has a journal, 10^a, for the pin, 15, of the door, 16. A hole, 11, is pierced through the plate, 10, for seating a thumb screw, 12, said screw entering the threaded hole, 13, in the plate, 6, and holding the socket plate in place. When used at the bottom of a door—Figs. 4 and 5—I prefer to use a web, 6′, at the top of the plate, against which a block or wedge, 14, presses downward on the socket plate, 10, so as to remove the weight from the thumb screw. The pin, 15′, is set into the sill, 17, a washer, 18, supporting the weight of the door and forming a bearing.

Such being the construction, the operation is as follows:—To position the hinge, a frame of wood representing the size of the door, can be used as a templet, by means of which the plate, 6, and the pin, 15′, can be fastened in the stone work, it being unnecessary to have the door on the job for that purpose. When the building is ready for the door, it is placed on the lower pin, the socket plate, 10, is set down over the upper pin, the thumb screw is inserted and screwed up, and the door is ready for use.

It is unnecessary to have two removable hinges on a door, so that if used on the top, the lower hinge can be a common socket permanently attached to the door; or if used at the bottom of a door, a permanent socket can be attached to the stone work above the door. When used at the bottom, the block or wedge, 14, is used to support the weight.

I have shown and described what I consider the best embodiment of my invention but it is understood that changes, variations and modifications can be resorted to which come within the scope of the claim hereunto appended.

What I claim is—

In a hinge, a plate adapted for a permanent fastening, a pair of oppositely disposed guide ribs integral with said plate, a plate adapted to slide between said ribs, said plate being provided with a socket and means for retaining said sliding plate in position on said first mentioned plate, in combination with a pin adapted to be journaled in said socket.

Signed at New York city in the county and State of New York this 17th day of April A. D. 1911.

ABRAHAM L. ADLER.

Witnesses:

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