

W. T. WIGHTMAN.
HINGE.
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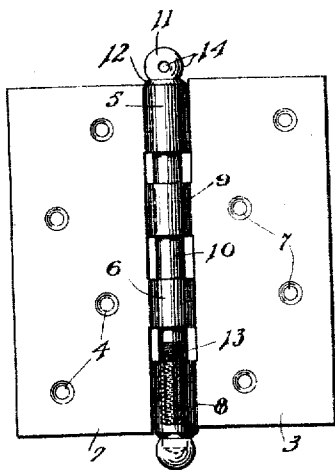
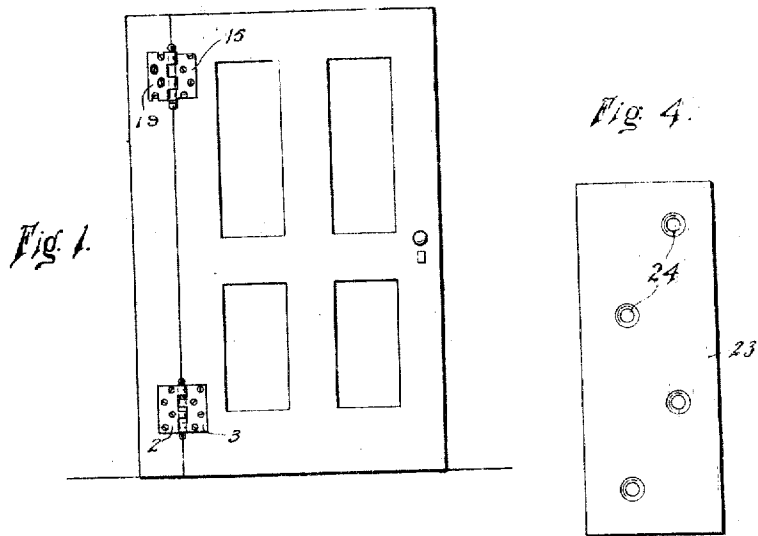


Fig. 2.

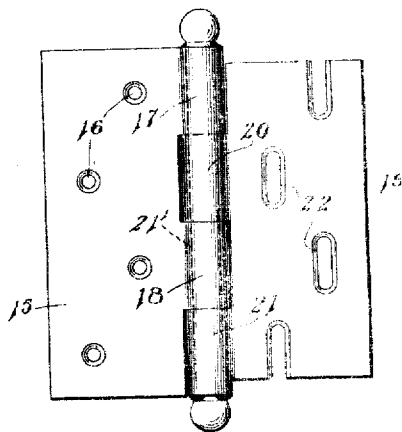


Fig. 3.

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HINGE.

969,926

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To all whom it may concern:

Be it known that I, WILLIAM T. WIGHTMAN, a citizen of the United States, residing at Half Moon Bay, in the county of San Mateo and State of California, have invented certain new and useful Improvements in Hinges, of which the following is a specification.

My invention relates to hinges adapted to support a door in such a manner that the door may be readily adjusted vertically.

An important object of my invention is to provide a device of the above character which will be simple in construction, neat in appearance and cheap to manufacture.

My invention consists generally in the arrangement and combination of parts to be hereinafter described.

In the accompanying drawings forming a part of this specification, and in which like numerals are employed to designate like parts throughout the same, Figure 1 is a side view of a door equipped with my hinges. Fig. 2 is a view of the lower hinge. Fig. 3 is a view of the upper hinge. Fig. 4 is a plan view of a plate to be used in connection with the upper hinge.

In the drawings, wherein the preferred embodiment of my invention is illustrated, 2 and 3 designate the leaves of the lower hinge. The leaf 2 is designed to be secured upon the jamb of the door-way by means of screws or the like which pass through the openings 4 formed upon said leaf 2. The leaf 2 is provided upon its engaging edge and adjacent the upper end thereof with a knuckle 5 which in turn is provided with an axial opening. The leaf 2 is provided near its center and upon its engaging edge with a second knuckle 6 which is also provided with an axial opening. The leaf 3 is adapted to be secured upon the door by means of screws or the like which pass through the openings 7 formed upon said leaf 3. The leaf 3 is provided upon its engaging edge and adjacent its lower end with a knuckle 8 which is provided with a screw threaded axial opening. The leaf 3 is further provided near its center and upon its engaging edge with a knuckle 9 which is disposed between the knuckles 5 and 6 formed upon the plate 2. The knuckle 9 is provided with an axial opening. A pintle 10 provided at its upper end with a head 11 and a large shoulder 12 passes through the knuckles 5, 9 and 6 and pivotally connects the leaves 2 and 3

together. The lower end of the pintle 10 is screw threaded as at 13 and is disposed within the screw-threaded opening of the knuckle 8. Owing to the fact that there is considerable space between the knuckles formed upon the leaf 2 and the knuckles formed upon the leaf 3, it is obvious that the leaf 3 may be adjusted vertically by rotating the pintle 10 clock-wise. The pintle 10 is loosely mounted in the knuckles through which the same pass and the head 11 of said pintle is provided with an aperture 14 within which may be inserted one end of a suitable tool for rotating said pintle 10.

In Fig. 3 I have illustrated a form of hinge which is adapted to cooperate with the hinge shown in Fig. 2 and which is arranged above the hinge shown in Fig. 2. The hinge shown in Fig. 3 comprises a leaf 15 which is adapted to be secured to the door, by means of screws or the like passing through the openings 16. The leaf 15 is provided at its upper end and upon its engaging edge with a knuckle 17. The leaf 15 is further provided upon its engaging edge and near its center with a second knuckle 18. A leaf 19 provided with spaced knuckles 20 and 21 which are arranged upon the engaging surface of said leaf near its center and lower edge respectively, is adapted to cooperate with the leaf 15 and is pivotally connected to the same by means of a pintle 21 which passes through the knuckles 17 and 18, 20 and 21. The leaf 19 is adapted to be secured to the door jamb and is provided with longitudinally arranged slots 22 for the reception of screws or the like. It is to be understood that the screws arranged within the slots 22 will be normally disposed at their centers and therefore allow of the vertical movement of the leaf 19 with relation to the door jamb. I may also employ a rectangular plate 23 provided with the openings 24 which are adapted to register with the slots 22. The screws for holding the leaf 19 pass through the openings 24 upon the plate 23 when said plate 23 is placed upon the leaf 19. The object of the plate 23 is to hide the slots 22 formed upon the leaf 19 and thus improve the appearance of the hinge, and to prevent the heads of the screws from working through the slots 22.

In use, the hinge shown in Fig. 2 connects the lower portions of the door and jamb, and the hinge shown in Fig. 3 connects the upper portions of the door and

jamb. When it is desired to vertically adjust the door the pintle 10 is rotated clockwise which will elevate the door. It will be seen that the leaf 19 is capable of being moved vertically upon the jamb and therefore does not interfere with the vertical movement of the door.

Having fully described my invention, I claim:—

10 A hinge of the character described, comprising a stationary leaf, having knuckles formed thereon, an adjustable leaf having

knuckles formed thereon, a pintle passing through said knuckles and pivotally connecting said leaves, said pintle being rotatably mounted in said knuckles and having a screw-threaded end disposed within one knuckle formed upon said adjustable leaf.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM T. WIGHTMAN.

Witnesses:

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