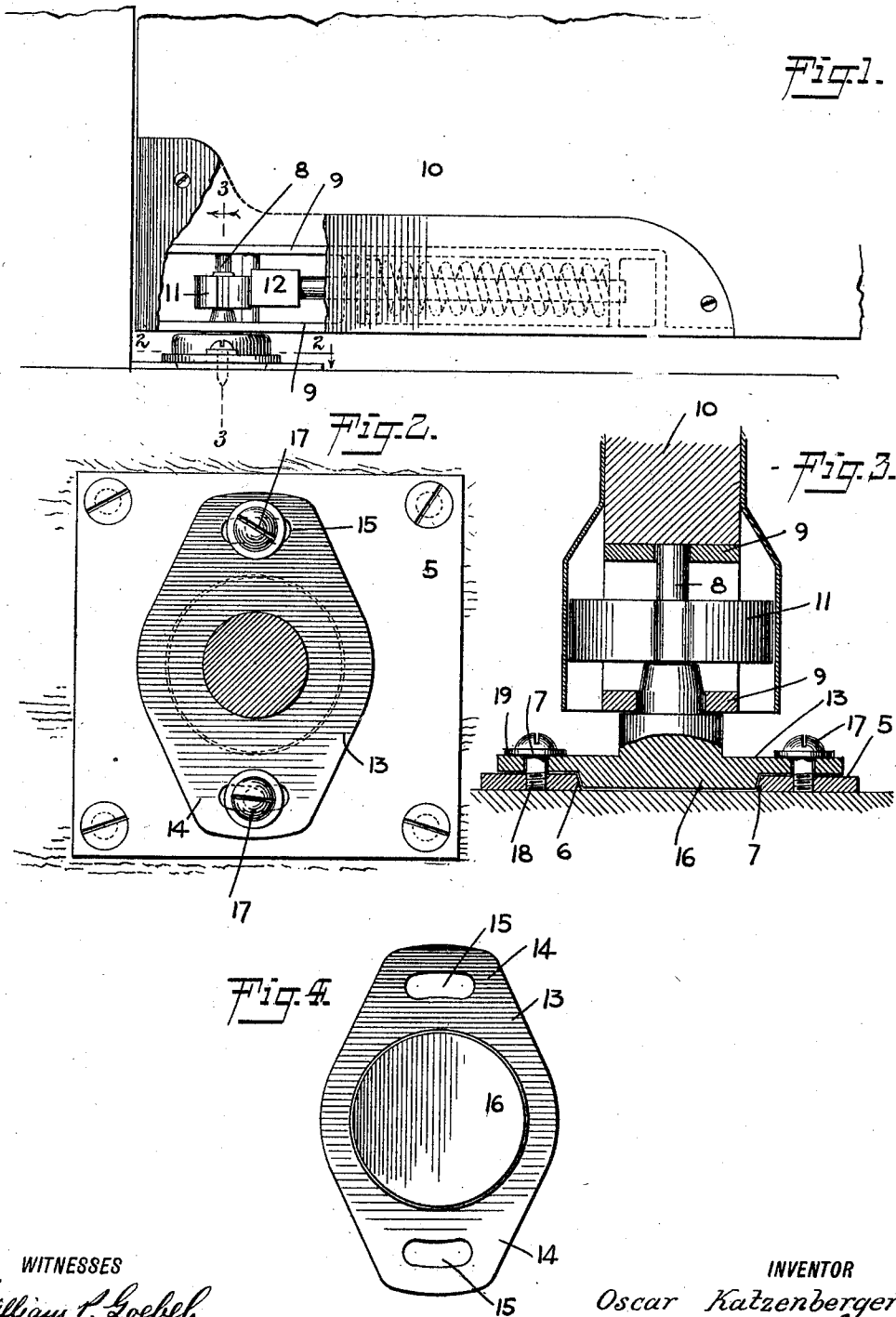


O. KATZENBERGER.
ALINING PLATE FOR FLOOR HINGES.
APPLICATION FILED APR. 9, 1912.

1,037,149.

Patented Aug. 27, 1912.



WITNESSES
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UNITED STATES PATENT OFFICE.

OSCAR KATZENBERGER, OF CHICAGO, ILLINOIS.

ALINING-PLATE FOR FLOOR-HINGES.

1,037,149.

Specification of Letters Patent.

Patented Aug. 27, 1912.

Application filed April 9, 1912. Serial No. 689,605.

To all whom it may concern:

Be it known that I, OSCAR KATZENBERGER, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented a new and Improved Alining-Plate for Floor-Hinges, of which the following is a full, clear, and exact description.

My invention relates to an alining plate for floor hinges, and an object of my invention is to secure registry between the free vertical edge of the door and the central portion of the door jamb when the door is in closed position, without depending on the screws in the floor plate for the proper adjustment.

I attain the above-outlined object by recessing the floor plate of a door hinge and rotatably mounting the hinge proper within the socket so formed and fastening the hinge in its adjusted position on the floor plate.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures, and in which—

Figure 1 is a fragmentary side elevation of the inner bottom portion of a door, with parts broken away to show a preferred embodiment of my invention; Fig. 2 is a horizontal sectional view through an embodiment of my device and taken on the line 2—2 of Fig. 1, looking in the direction of the arrow; Fig. 3 is a vertical tranverse sectional view taken on the line 3—3 of Fig. 1, looking in the direction of the arrow, and Fig. 4 is a bottom view of the alining plate showing a reversal of the side of the plate shown in Fig. 2.

In the means now in common use for pivoting doors to the floors, the alinement depends upon two set screws, which necessarily cannot stand up for any length of time due to the fact that as the door swings back and forth, the force of the blows is transmitted against these two screws which will eventually become loosened in their threads and allow the door to be moved some material distance before any action is obtained on the closing spring.

The present invention is regarded as an improvement over my application for a similar device, Serial No. 652,729, allowed January 11, 1912, in that a finer adjustment can be obtained than is obtained by the

engagement of the teeth and rack referred to in the above-identified application.

In the drawings, I have shown a floor plate 5 having the usual screw openings for fastening the same in place on the floor, and also provided with a large centrally-disposed recessed pocket or opening 6, in this instance, shown to be circular in plan with slightly downwardly- and inwardly-inclined sides 7. A cam-carrying member 8 has its upper end suitably journaled in a frame 9 recessed into the lower inner edge of the door 10. The cam-carrying member 8 has positioned thereon a cam 11 engaged by a spring-pressed bolt head 12, more fully described in the previous application above referred to. The lower end of the cam-carrying member 8 is formed into a relatively broad flat alining plate 13 circular in plan having a pair of ears 14 projecting from diametrically opposite sides. Each of these ears carries an elongated arcuate slot 15. Depending centrally from the under side of the plate 13 and preferably integral with said plate, is a depending frusto-conical boss 16, conforming in configuration to the recessed pocket or opening 6 and rotatably mounted in said pocket in a horizontal plane. By this construction, it will be seen that the cam-carrying member 8 and its attached door 10 may be adjusted relative to the floor plate 5. The plate is held in adjusted position by means of bolts 17 passing through the slots 15 and threaded into one of a pair of transversely-disposed holes 18 in the floor plate 5 on opposite sides of the opening 6. If desired, a washer 19 may be disposed on the alining plate 13 beneath the head of the bolt 17, to bind the plate 13 firmly in position on the floor plate 5.

Should the door, due to the wearing of any of the parts, not swing true to close the door opening, the bolts 17 may be loosened, the door swung to its true normal position revolving the plates 13, and then the bolts 17 screwed into position to bind the alining plate 13 tightly on the floor plate 5.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. In a floor hinge for doors, the combination of a floor plate having a circular pocket in the upper face thereof, a cam-carrying member having an adjusting plate, consti-

tuting part thereof, a circular boss depending from the under side of said adjusting plate and rotatably mounted in said pocket, and means maintaining said cam-carrying member in adjusted position relative to said floor plate.

2. In a floor hinge for doors, the combination of a floor plate having a circular opening therein, said opening having inwardly and downwardly-inclined sides, an aligning plate having a depending frusto-

conical boss on the under side thereof fitting said opening, and means maintaining said plates in adjusted position relative to each other.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

OSCAR KATZENBERGER.

Witnesses:

JOHN CONNOLLY,
OLGA LUND.

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

DISCLAIMER.

1,037,149.—*Oscar Katzenberger*, Chicago, Ill. ALINING-PLATES FOR FLOOR-HINGES.
Patent dated August 27, 1912. Disclaimer filed October 6, 1915, by the patentee.

Enters this disclaimer—

“To claim 1 and that claim only of his Patent No. 1,037,149 in said specification, which claim is in the following words:

“In a floor hinge for doors, the combination of a floor plate having a circular pocket in the upper face thereof, a cam-carrying member having an adjusting plate constituting part thereof, a circular boss depending from the under side of said adjusting plate and rotatably mounted in said pocket, and means maintaining said cam-carrying member in adjusted position relative to said floor plate.”

[*Official Gazette*, October 19, 1915.]