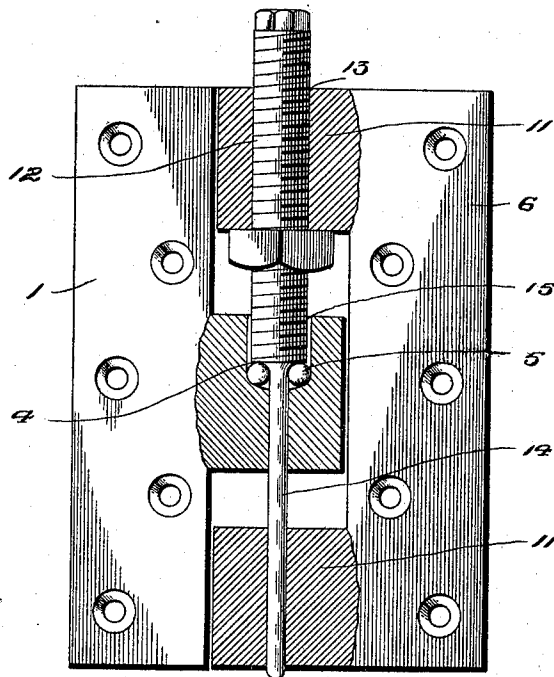


(No Model.)

A. STEINFELDT.
BALL BEARING HINGE.

No. 586,146.

Patented July 13, 1897.



Witnesses
C. D. Kesler
Victor J. Evans

Inventor
Adolph Steinfeldt
By John Wedderburn.
Attorney

UNITED STATES PATENT OFFICE.

ADOLPH STEINFELDT, OF LUVERNE, MINNESOTA, ASSIGNOR OF ONE-HALF
TO S. B. NELSON AND NELS C. GUNDERSON, OF SAME PLACE.

BALL-BEARING HINGE.

SPECIFICATION forming part of Letters Patent No. 586,146, dated July 13, 1897.

Application filed June 1, 1896. Serial No. 593,954. (No model.)

To all whom it may concern:

Be it known that I, ADOLPH STEINFELDT, a citizen of the United States, residing at Luverne, in the county of Rock and State of Minnesota, have invented a Ball-Bearing Hinge, of which the following is a specification.

This invention relates to a novel construction in a hinge; and it consists in features of construction hereinafter described and claimed.

The accompanying drawing is a side view, partly in section, of a hinge constructed in accordance with this invention.

In said drawing a leaf 1 is provided with a lateral projection 2, having an upright opening 3. The upper face of the projection 2 around this opening is cup-shaped, as at 4, to provide a seat for the balls 5 of the bearing. The other leaf 6, however, is provided with the inwardly-extending apertured projections 11 to receive the upper and lower ends of the pintle 12. Said pintle is made with a screw-threaded upper end portion 13 and a reduced lower end portion 14, the ball-bearing face 15 being provided between these parts.

An adjusting-nut 16 is placed upon the screw-threaded portion of the pintle between the upper projection 11 and the projection 2 of leaf 1. This adjusting-nut 16 is adapted to support the said leaf 6 and parts connected therewith. The upper end of the pintle 12 is

squared, so that it may be turned by the use of a suitable tool.

It will be seen from the foregoing description that besides acting as a hinge the pintle may be adjusted in an obvious manner to keep the door level and in its correct position and thus overcome the objectionable feature of sagging or shrinking of doors, whereby they can always be easily opened and closed.

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

A hinge consisting of two members, one of which is provided with an inwardly-extending apertured projection having a seat, the other member being provided with inwardly-extending apertured projections, a pintle having a screw-threaded upper end portion and a reduced lower end portion extending through said apertured projections of both members, a ball-bearing face between said upper and lower end portions of the pintle, bearing-balls within the seat of said projection of the first-mentioned member and upon which the ball-bearing face of the pintle rests, and an adjusting-nut mounted upon said pintle between the projections of the first-mentioned member and the upper projections of the last-mentioned member.

ADOLPH STEINFELDT.

Witnesses:

W. N. DAVIDSON,
S. B. NELSON.