J. H. DAVIS.

CLOSET SEAT HINGE.

APPLICATION FILED JUNE 29, 1908.

905,996. Patented Dec. 8, 1908.

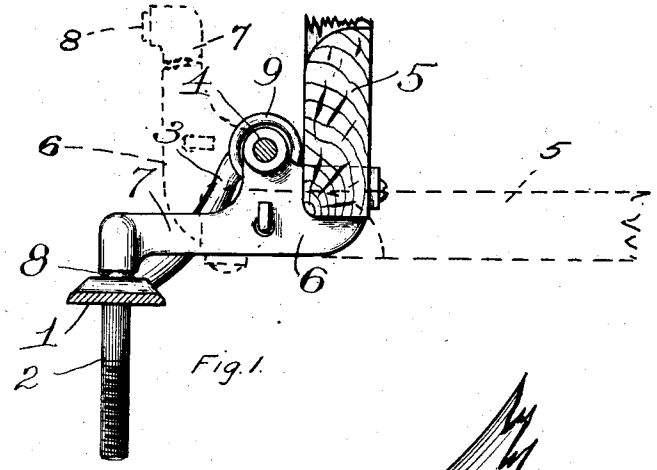


Fig. 1.

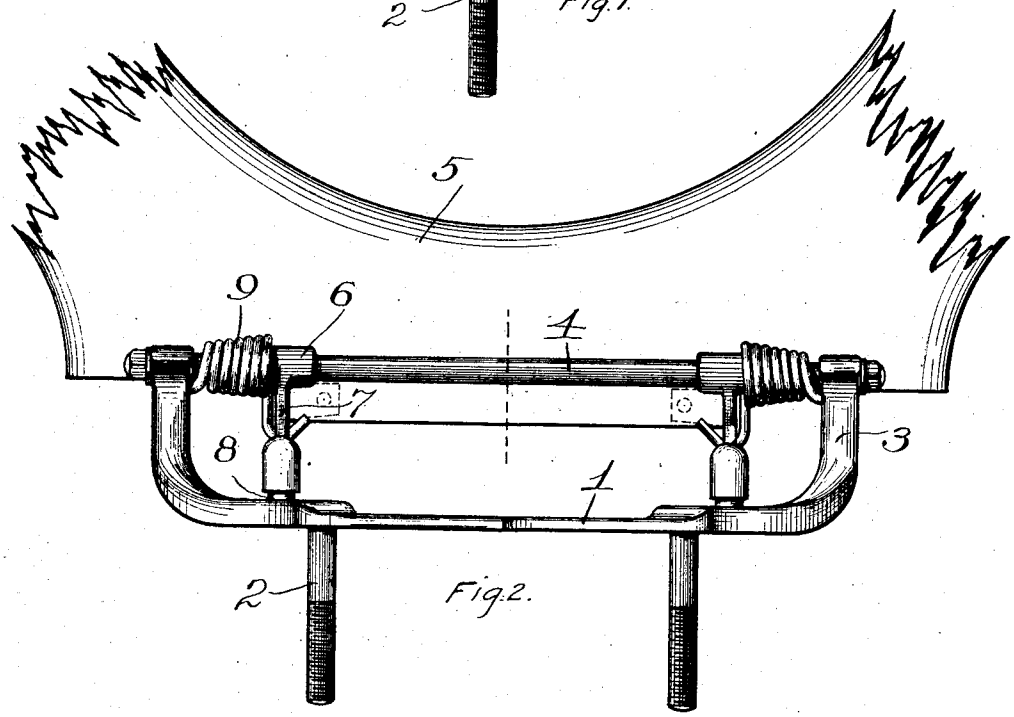


Fig. 2.

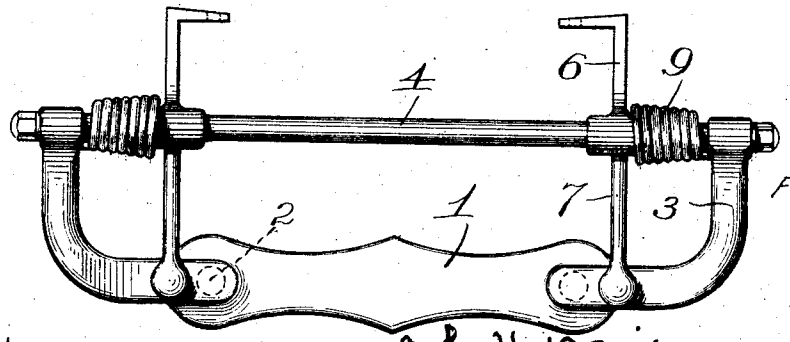


Fig. 3.

Witnesses:
Elmer R. Shipley.
M. S. Belden.

John H. Davis Inventor
by James W. See
Attorney

THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOHN H. DAVIS, OF HAMILTON, OHIO, ASSIGNOR TO THE SANITARY MANUFACTURING COMPANY, OF HAMILTON, OHIO.

CLOSET-SEAT HINGE.

No. 905,996. Specification of Letters Patent. Patented Dec. 8, 1908.

Application filed June 29, 1908. Serial No. 440,868.

To all whom it may concern:

Be it known that I, JOHN H. DAVIS, a citizen of the United States, residing at Hamilton, Butler county, Ohio, have invented certain new and useful Improvements in Closet-Seat Hinges, of which the following is a specification.

This invention pertaining to closet-seat hinges, will be readily understood from the following description taken in connection with the accompanying drawing in which:—

Figure 1 is a vertical transverse section of my improved hinge: Fig. 2 a rear elevation of the same: and Fig. 3 a plan of the same.

In the drawing:—1, indicates a base-bar adapted to lie upon the top of the rear portion of a closet-bowl: 2, studs to serve in attaching the base-bar to the bowl, these studs projecting downwardly from the base-bar and having their upper ends connected therewith: 3, arms projecting upwardly and outwardly and forwardly from the base-bar and having pivot-eyes in their extremities, the base-bar and these arms forming the fixed member of the hinge: 4, the hinge-pivot, seated in the eyes of the arms 3: 5, the seat: 6, the moving hinge-members, the same being rigidly secured to the seat and pivoted freely upon the hinge-pivot: 7, arms extending rigidly rearward from the moving hinge-members 6 in a general direction substantially at right angles to the seat: 8, buffers, as of rubber, carried in downwardly open sockets in the ends of arms 7 and adapted to come down into contact with the top of the base-bar when the seat is in substantially vertical position: and 9, helical springs surrounding the hinge-pivot, one end of each spring being anchored to one of the arms 3 while its other end is connected with one of the moving hinge-members 6, the springs being under such strain as to lift the seat and hold it in substantially vertical position with the buffers against the base-bar.

The seat stands normally upright, being held there by the springs and when it is turned down to horizontal position the springs yield and the buffers leave the base-bar. When the seat is released the seat flies up to normal vertical position, the buffers again coming into contact with the base-bar. The entire hinge is self-contained and secured as a single body to the closet-bowl and the fixed hinge-member meets all of the strains of the seat in any position and of the springs while the seat is being turned down or when it is arrested upon flying up to normal position.

I claim:—

A closet-seat hinge comprising, a base-bar provided at its ends with rigid upturned arms and forming the fixed hinge-member, separated studs projecting downwardly from the base-bar to serve in securing it to a closet-bowl, a hinge-pivot seated in eyes in the upper extremities of said arms, movable hinge-members pivoted thereon and adapted to have the seat secured to them, arms rigidly connected with the movable hinge-members and extending rearwardly therefrom in direction substantially at right angles to the attached seat and having portions adapted to make downward contact upon the base-bar, and a spring engaging the fixed and movable hinge-members and adapted to yieldingly support the seat in substantially vertical position, combined substantially as set forth.

JOHN H. DAVIS.

Witnesses:
ROBERT J. SHANK,
W. W. VINNEDGE.