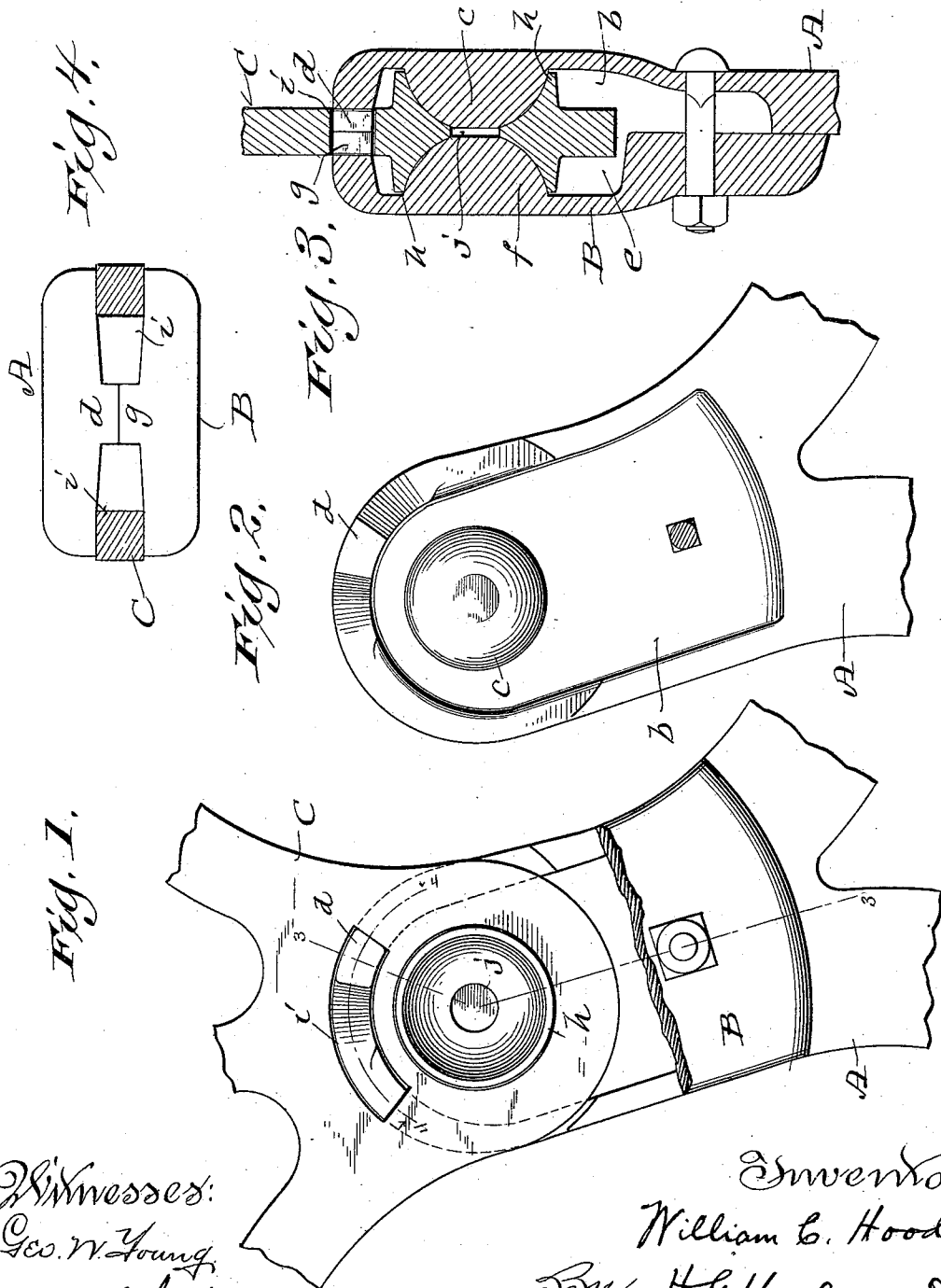


(No Model.)

W. C. HOOD.  
FURNITURE JOINT.

No. 546,817.

Patented Sept. 24, 1895.



Witnesses:  
Geo. W. Young  
H. E. Cliphant

Inventor:  
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# UNITED STATES PATENT OFFICE.

WILLIAM C. HOOD, OF RACINE, WISCONSIN.

## FURNITURE-JOINT.

SPECIFICATION forming part of Letters Patent No. 546,817, dated September 24, 1895.

Application filed May 23, 1895. Serial No. 550,349. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM C. HOOD, a citizen of the United States, and a resident of Racine, in the county of Racine and State of Wisconsin, have invented certain new and useful Improvements in Furniture-Joints; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide a simple, economical, and noiseless hinge-joint, especially designed for school-seats, but also applicable to various other furniture; and it consists in certain peculiarities of construction and combination of parts hereinafter set forth with reference to the accompanying drawings, and subsequently claimed.

In the drawings, Figure 1 represents an elevation of a hinge-joint constructed according to my invention and partly broken away; Fig. 2, a like view illustrating the inner face of that portion of a standard embodied in the joint; and Figs. 3 and 4, sectional views, respectively, taken on lines 3 3 and 4 4 of Fig. 1.

Referring by letter to the drawings, A represents a support in the form of a school-seat standard having a partly offset arm provided with a recess *b* and a lateral semispherical boss *c* that projects into the recess, the crown of this boss being preferably flattened. The offset portion of the bracket-arm has the recess-rim provided with a stop-lug *d* concentric to the aforesaid boss, the surface of said rim being inclined for a limited distance in opposite directions from the lug. Bolted to the aforesaid arm of the standard is a plate B, having an offset portion provided with a recess *e* and a lateral semispherical boss *f*, the latter being projected into said recess and preferably flattened at the crown. The rim of the plate recess is provided with a stop-lug *g* concentric to the boss *f*, and the surface of said rim is inclined for a limited distance in opposite directions from the latter lug.

Engaging the semispherical bosses *c* and *f* above specified are corresponding sockets *h*, on opposite sides of a seat-bracket C, having a segmental slot *i*, engaged by the lugs *d* and *g*, also specified in the foregoing, these lugs being arranged to register with each other, and the space for the necessary play of the bracket between the standard A and plate B is a re-

sult of offsetting said standard and plate. As best shown in Fig. 3, the seat-bracket is preferably cast so as to have the sockets *h* thereon in communication through a central opening *j*, and thus I obtain space for the reception of lubricant.

From the foregoing it will be understood that when the seat-bracket approaches its limit of tilt in either direction it will ride on inclines adjacent to the stop-lugs engaging its segmental slot to cause a spreading of the joint due to the spring of the plate in bolt connection with the standard, the wedging action compensating for wear and obviating noise in said joint.

While a wedging action of the seat-bracket takes place at the limit of tilt in either direction, because of the contraction of space due to the inclines in opposite directions from the slot-engaging stop-lugs, it is to be observed that said bracket will readily tilt upward when an occupant of the seat, on rising therefrom, exerts a slight pressure of his legs against the front edge, and being in this position said seat is in the way of a person about to sit down. Consequently it will automatically and noiselessly return to its former horizontal position because of the weight of said person. While I have shown the bracket A and plate B each provided with a lug, as a matter of preference and convenience, it is practical to have but one lug and the latter may be on said standard or plate, as found most desirable. In any event, however, there is contraction of the play-space for the seat-bracket in opposite directions from the lug or lugs that engage the segmental slot in said bracket and limit play of latter in either direction of its tilt.

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

1. A support having a partly offset portion provided with a recess and a lateral semispherical boss within the recess, a plate in bolt-connection with the support and having an offset recessed portion also provided with a lateral semi-spherical boss opposite the one aforesaid, a stop intermediate of said offset portions of the support and plate, and a seat-bracket provided with lateral sockets for the

bosses and a segmental slot engaged by the stop, the play-space for the bracket being contracted in opposite directions from the stop.

2. A support having a partly offset portion  
5 provided with a recess, a lateral semi-spherical boss within the recess, and a stop-lug on the offset portion of the recess-rim concentric to the lug, this rim being inclined in opposite directions from the stop-lug; a plate in bolt-  
10 connection with the support and having an offset recessed portion also provided with a semi-spherical boss, stop-lug and inclined

surfaces opposite those of said support; and a seat-bracket provided with lateral sockets for the bosses and a segmental slot engaged 15 by the stop-lugs.

In testimony that I claim the foregoing I have hereunto set my hand, at Racine, in the county of Racine and State of Wisconsin, in the presence of two witnesses.

WILLIAM C. HOOD.

Witnesses:

JOHN EVANS,  
C. C. NAYLOR.