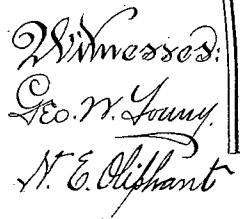


(No Model.)

W. C. HOOD.
FURNITURE JOINT.

No. 546,816.

Patented Sept. 24, 1895.



Inventor:
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UNITED STATES PATENT OFFICE.

WILLIAM C. HOOD, OF RACINE, WISCONSIN.

FURNITURE-JOINT.

SPECIFICATION forming part of Letters Patent No. 546,816, dated September 24, 1895.

Application filed April 3, 1895. Serial No. 544,261. (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 just as applicable to various other furniture; and it consists in certain peculiarities of construction and combination of parts herein after set forth, with reference to the accompanying drawings, and subsequently claimed.

In the drawings, Figure 1 represents an elevation of a portion of a school-seat embodying my improved joint, part of the latter being broken away; Fig. 2, a section taken on line 2 2 of the preceding figure; Fig. 3, an elevation illustrating the inner face of a plate that is detachably connected to a standard and constitutes part of the joint; Fig. 4, a similar view of that portion of the standard opposite said plate; Fig. 5, an elevation showing a seat-bracket in connection with said standard; Fig. 6, a section taken on line 6 6 of the preceding figure, and Fig. 7 a similar view taken on line 7 7 of the first figure.

Referring by letter to the drawings, A represents a support in the form of a school-seat standard, having an arm B thereof offset upon its inner side. The offset portion of the standard-arm B is provided with a central boss *b*, that engages an opening in a seat-bracket C and serves as a pivot for this bracket. The offset portion of the standard-arm is also provided with at least one lug *c*, arranged on a circle struck from the center of the boss *b*; but it is preferable to have two lateral lugs diametrically opposite each other, as herein shown. Flanking each lug on the same circle therewith are inclines *d*, that rise in opposite directions.

The seat-bracket C is shown as provided with as many segmental slots *e* as there are lugs *c* arranged on the offset portion of the standard-arm B, and each slot is engaged by one of the lugs. Bolted to the arm B is one end of a plate D, the free end of this plate

being offset upon its inner side in opposition to the offset portion of said arm.

The plate D has a central opening engaged by the boss *b* on the standard-arm B, and inclines *f* on the offset inner side of said plate face the ones *d* on said arm.

From the foregoing it will be understood that the seat-bracket C tilts in the space obtained by offsetting the inner sides of the standard-arm B and plate D, and as said bracket approaches its limit of tilt in either direction it will ride on inclines *d f* to cause a spreading of the joint, due to the spring of said plate, the wedging action thus obtained obviating noise and compensating for wear in said joint. It will also be observed that the bracket C will readily tilt up 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.

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

1. A furniture-joint comprising a support offset upon one of its sides, a plate secured at one end to the support and having its free end offset upon the side in opposition thereto, a seat-bracket arranged to have rotary movement in the space bounded by the offset sides of the support and plate, together with lateral inclines arranged to come intermediate of a side of the seat-bracket and an opposing surface on a circle struck from the axis of said bracket, these inclines being in opposite directions on said circle at such points as will insure outward pressure of the aforesaid bracket against the free end of said plate as the former approaches its limit of travel in either direction.

2. A support offset upon one of its sides, a plate secured at one end to the support and having its free end offset upon the side in opposition to the offset portion of the support, a seat-bracket arranged in the space bounded by the offset sides of the support and plate, a stationary lug within the joint engaging a segmental slot in the seat-bracket, and in-

clines also arranged within the joint in opposite directions from the lug to thereby cause lateral pressure of said seat-bracket against the plate as the former approaches its limit
5 of tilt in either direction.

3. A support offset upon one of its sides and this offset provided with a central boss and a pair of lugs, the latter being arranged on a circle diametrically opposite each other, in-
10 clines that flank each lug on the same circle therewith and rise in opposite directions, a seat-bracket loose on the boss and provided with segmental slots engaged by the lugs, a

boss-engaging plate fast at one end to the support and having its free end offset upon the
15 side in opposition to the offset portion of said support, and inclines on the plate facing those on the aforesaid support.

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

WILLIAM C. HOOD.

Witnesses:

R. B. LANG,

JOSEPH COOPER.