

C. H. LENHART.
FURNITURE JOINT.
APPLICATION FILED FEB. 7, 1910.

1,035,611.

Patented Aug. 13, 1912.

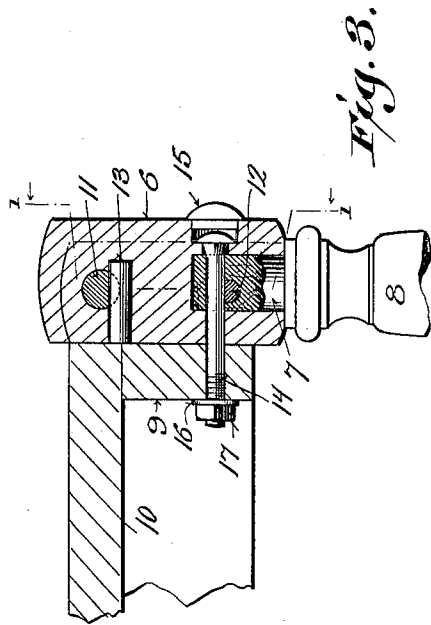


Fig. 3.

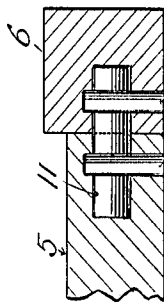


Fig. 4.

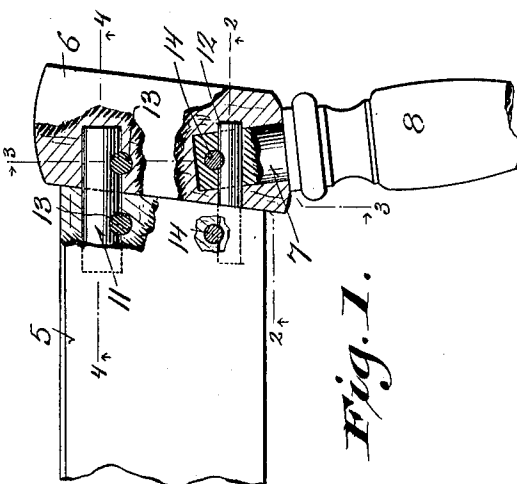


Fig. 1.

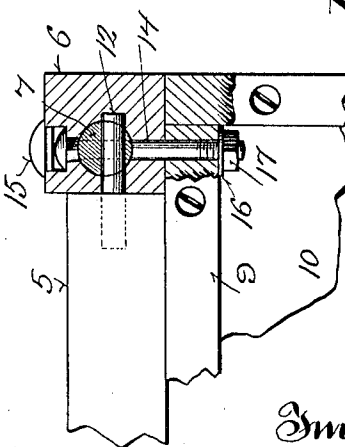


Fig. 2.

Witnesses:
J. N. Young.
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UNITED STATES PATENT OFFICE.

CHARLES H. LENHART, OF PLYMOUTH, WISCONSIN.

FURNITURE-JOINT.

1,035,611.

Specification of Letters Patent.

Patented Aug. 13, 1912.

Application filed February 7, 1910. Serial No. 542,565.

To all whom it may concern:

Be it known that I, CHARLES H. LENHART, a citizen of the United States, and resident of Plymouth, in the county of Sheboygan 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 consists in what is herein particularly set forth with reference to the accompanying drawings and pointed out in claims of this specification, its object being to provide against spreading of preferably glued dowel-joints in furniture and to secure legs of the furniture against detachment in case glued tenons of said legs become loose in their sockets.

Figure 1 of the drawings represents a side elevation of one of my improved joints in chair construction partly broken away, and Figs. 2, 3, and 4 sectional views respectively indicated by lines 2—2, 3—3 and 4—4 in Fig. 1.

Referring by numerals to the drawings, 5 represents a side-bar in glued dowel-joint connection with a block 6 having a socket in which a tenon 7 of a leg 8 is glued, said bar and block being a showing of primarily closely abutting members of one of my improved joints in a side piece that is bolted to a bar 9 depending from a seat 10 of a chair parallel to the aforesaid bar and block. The dowels 11 and 12 of the joint are cross-notched and their notches are engaged by key-pins 13 and 14 of uninterrupted surface that also engage the members 5 and 6 of said joint. The uppermost dowel 11 is preferably of considerably greater diameter than the dowel 12 to compensate for the greatest strain that comes upon the joint at the upper portion of same, in the case of a chair in which the leg herein shown is not braced by a rocker or otherwise. The wooden dowels and wooden key-pins are glued in the sockets and pinholes the pin-clearing notches in said dowels being in register with said pinholes.

One of the dowels 12 is shown extending through the tenon 7 of the leg 8 that is glued in a socket provided in the joint-

member 6, and a carriage bolt employed to connect the aforesaid side-piece to the depending bar 9 of the chair-seat 10 serves as one of the key-pins 14 for the dowel 12, and also extends through said leg-tenon. These key-pins insure the leg 8 from becoming detached from the joint-member 6 in case the gluing of the tenon 7 fails to hold. The carriage-bolt has its head countersunk in the joint-member 6 and concealed by a plug 15 set in the countersink, this plug being made to show as an ornamental button on the furniture. A washer 16 and a nut 17 are engaged by the inner end of the bolt extending through the bar 9 of the chair-seat 10.

Because of the cross-keying of the dowels 11 and 12, the furniture-joint is held against spreading incidental to strain that would otherwise tend to loosen the gluing of said joint, this being the more important feature of my invention.

I claim:

1. In a furniture-joint, the combination of a side-bar and an abutting socket-block, dowel-pins glued in the side-bar and block, a leg having a tenon glued in the socket with which the block is provided and penetrated by one of said dowel pins, and a key-pin engaging said block, the leg-tenon and the dowel-pin that penetrates said tenon.

2. In a furniture-joint the combination of a side-bar and an abutting socket-block, dowel-pins glued in the side-bar and block, a leg having a tenon glued in the socket with which the block is provided, and penetrated by one of said dowel-pins, a chair-seat having a depending bar parallel to the bar and block aforesaid, a key-pin engaging said block, the leg-tenon, the dowel-pin that penetrates said tenon and the chair-seat bar.

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

CHAS. H. LENHART.

Witnesses:

N. E. OLIPHANT,
MAY DOWNEY.