(12) **United States Patent**
Benjamin

(10) **Patent No.: X9011**
(45) **Date of Patent: Aug. 17, 1835**

(54) **CHAIRS**

(76) Inventor: **Eli F. Benjamin**

Eli F. Benjamin

Letters Patent

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Eli F. Benjamin himself of his improvement in the Manufacturing of chairs.

To all whom these presents shall come

Be it known that I Eli F. Benjamin of the City of Utica County of Oneida & State of New York have invented a new and useful improvement in the Manufacturing of chairs. This improvement consists in the putting of Chairs together or with Dowells (which improvement) is fully shown by the description and model of a machine which I also have invented for boring the different parts of the Chairs for the above purpose. The Machine which I now have in use is four feet long, three feet wide and two feet seven and half inches high. the frame part. That part called the table is four feet ten inches long one foot three inches wide & two and half inches thick. On the under side of this table are two circular ways for the purpose of shifting the table to any bevil of the chair. This table rests on square frame work one foot ten inches long, one foot eight inches wide & one foot six inches high. On the top of this frame is straight ways on which the circular ways run which gives the motion back and forth to the table. To the bottom of this frame work is attached a lever operated upon by the foot to raise & lower the table. This frame (which is operated by the lever) may be put together by either round or square joints as the mechanick or operator may think proper. and the whole may be made of any kind of timber. That part of the machine called the boring part is about eight inches square & six and quarter inches high. The one

one I have now in use has two arbors similar to turning lathe arbors with tapered holes in the end to receive the bitts or augurs. These two arbors are turned by another of the same kind on which the gearing is fixed for turning them. The top of the table is prepared with stops & guids with screws running in long mortises or what is called slots & the timber is held to the top of the table by screws & jaws as the mechanick or operator may think proper. The edge of the table toward the boring part is prepared in the same manner. After the back and front posts of the chair are prepared & put together, the side of the chair is then set perpendicular against the edge of the table the bottom resting on what is called a step (which is fixed to the table) The table is then turned to the right bevil of the chair by means of the circular ways which operate with nuts & screws) and run up to the bitts or augurs operating the lever & shifting the side of the chair until bored. That part of the machine which is seperate from the table is made to fasten to the edge of the table by means of screws & made in form of the model with guides stops & fastenings for the purpose of boring what is called the seat or slat of the chair. it is hung with hinges to a piece of timber & fastened to the edge of the table with screws having what is called a horse to raise & lower it to suit the bevil of the chair. it is made portable for convenience it may be made fast to the table if thought proper. The whole machine may be varied or altered both in length width & height to suit the mechanick or operator. The boring part may be made of any kind of metal or com wood & may operate with one, two, three or four bitts or augers if or there may be two boring parts attached to the same frame operating in like manner, it may also be made to operate without the lever & the whole machine may be propelled by hand, horse, steam, or water power or even air.

What

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What I claim as my improvement in the above art of putting chairs together consists in putting them together by or with Dowels by which means I am able to introduce a stronger substance for the joint without weakening the frame of the chair. I also claim the above described form of machinery for expediting every part of the work. Done in 1835

Witnesses

Willard Crafts

Edward Shepard

Eli F. Benjamin

508 words

Ld.