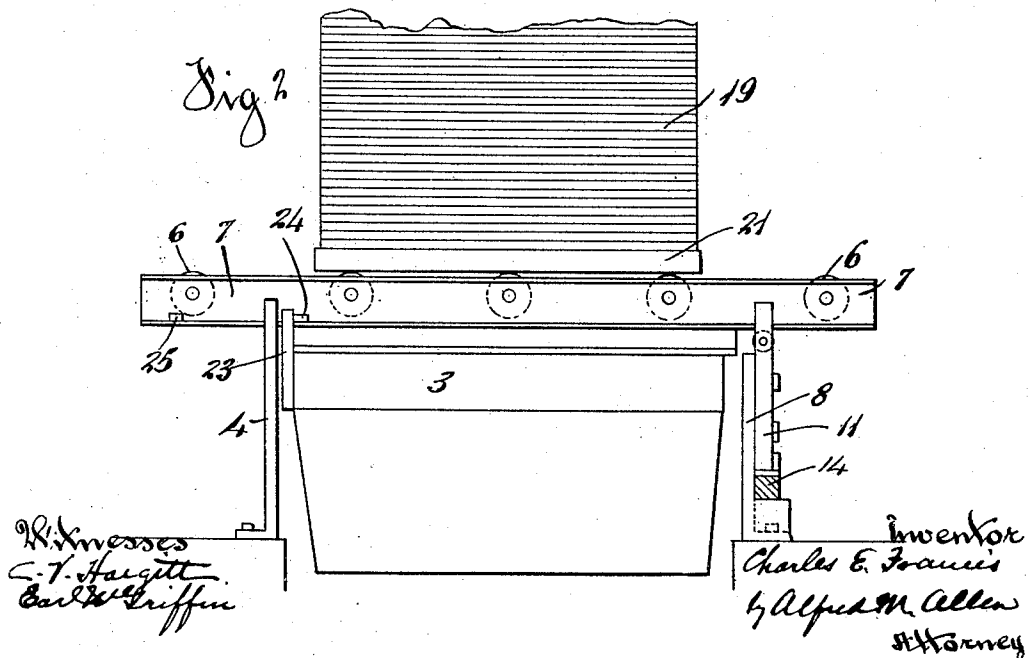
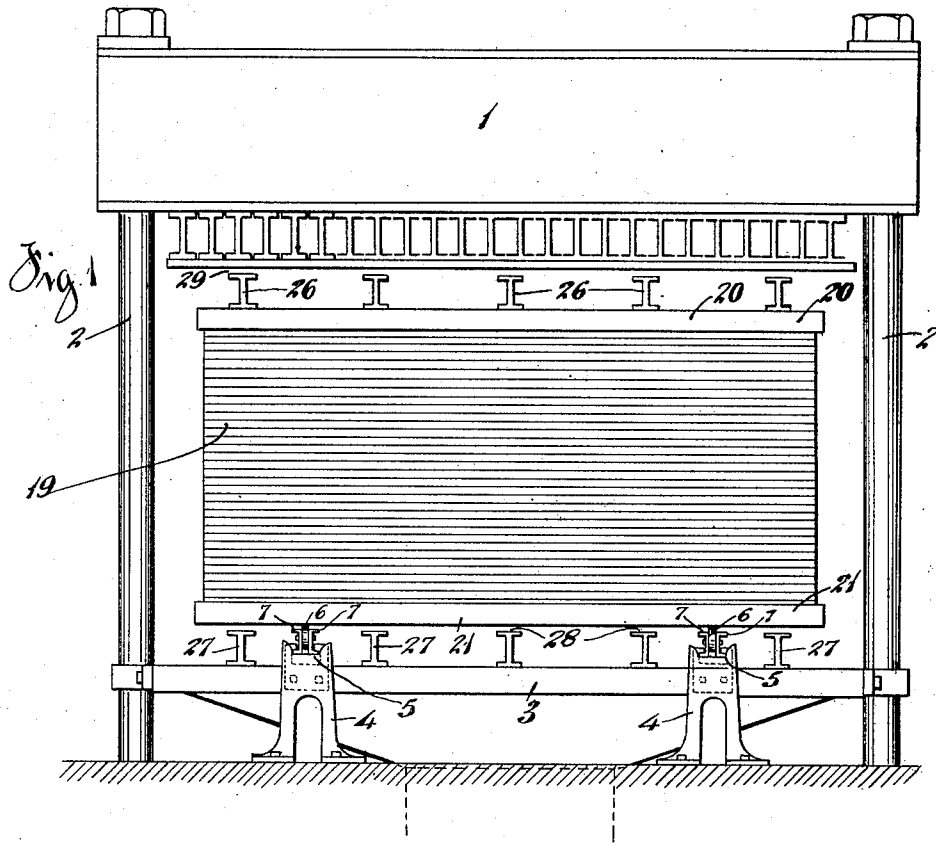


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 APPLICATION FILED JUNE 2, 1911.

1,016,258.

Patented Feb. 6, 1912.

2 SHEETS—SHEET 1.

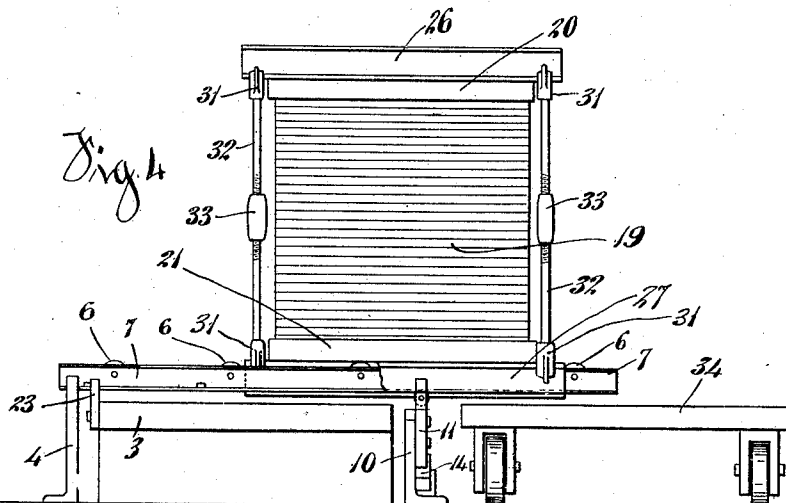
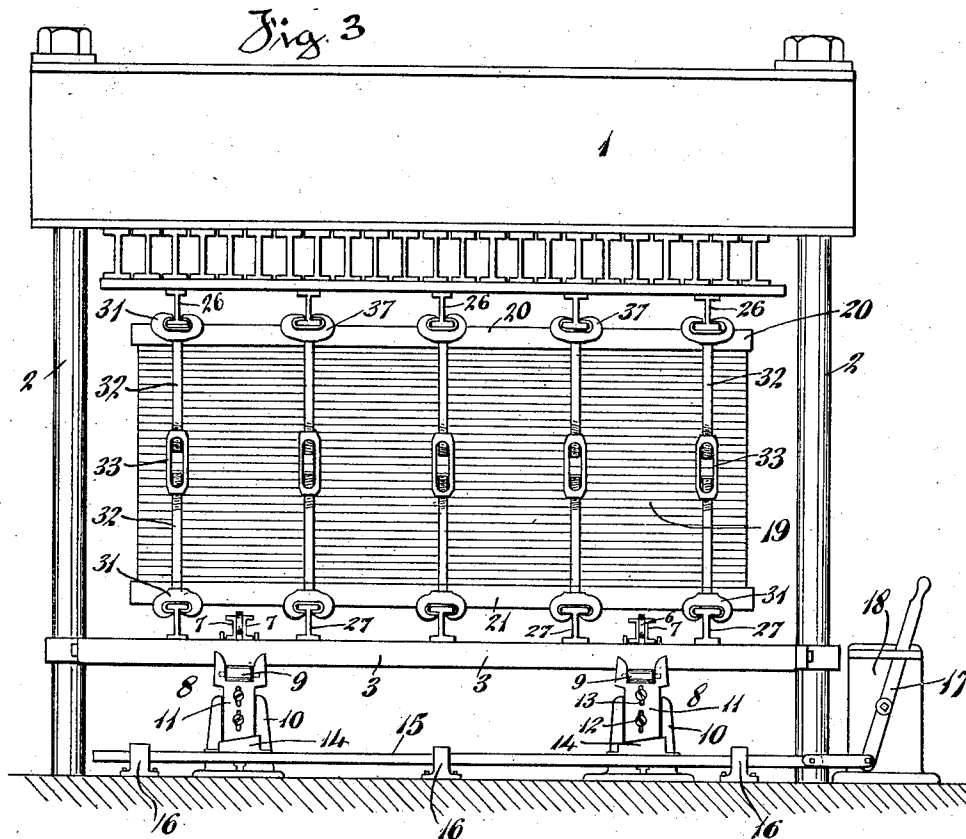


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CHARLES E. FRANCIS, OF CINCINNATI, OHIO.

VENEER-PRESS FOR MANUFACTURERS OF WOODWORKING MATERIAL.

1,016,258.

Specification of Letters Patent.

Patented Feb. 6, 1912.

Application filed June 2, 1911. Serial No. 630,931.

To all whom it may concern:

Be it known that I, CHARLES E. FRANCIS, a citizen of the United States, and a resident of Evanston, Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Veneer-Presses for Manufacturers of Woodworking Material, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to devices for handling bundles of stock in veneer presses, and it consists of that certain novel construction and arrangement of parts to be hereinafter particularly pointed out and claimed whereby veneered and built-up stock may be readily and easily handled and removed from the press to the ordinary truck for transportation to any part of the factory desired, without the necessity of providing any block and tackle, tramways with hangers, or other special contrivances for removing the bundle of stock from the press.

It has been customary heretofore to build up bundles of veneered material on a suitable truck or car, and to arrange rollers on the truck and rollers for the press, so that the bundle may be readily pushed or rolled from the truck to the press. But after the stock has been compressed and is located in position by retaining clamps, no convenient means has been provided to remove the clamped bundle to dry, except with block and tackle, or overhead tramways with hangers, in which to suspend the bundle by chains.

The special object of my invention is to provide a construction by which the clamped bundles may be readily and easily removed onto the ordinary truck or car, without the necessity of a block and tackle, or other mechanical construction to lift the bundle.

In the drawings, Figure 1 is a front elevation of my improved press, with the stock in position before the pressure is applied. Fig. 2 is a side elevation of the same. Fig. 3 is a rear elevation of the press after the pressure has been applied, and the bundle has been properly clamped. Fig. 4 is a side elevation illustrating the method of removing the clamped bundle onto the ordinary truck.

The head of the veneer press is indicated by the numeral 1, with side standards 2, 2,

and with movable platen 3, which platen is raised and lowered by hydraulic power.

Bolted securely to the floor, in front of the movable platen, are brackets 4, 4, with a channeled supporting surface 5, 5, at the upper end of each bracket, and these brackets support a set of rollers 6, 6, which are journaled to rotate in a vertical plane in side plates 7, 7, the upper edge of the series of rollers being slightly above the upper edge of the side plates in which they are supported and journaled. On the opposite or rear side of the press are securely bolted to the floor, a corresponding pair of brackets 8, 8. These rear brackets, for their supporting surfaces, are the same height as the front brackets 4, 4, and sustain the roller side plates 7 at the rear. The supporting surface of each rear bracket is provided with a roller 9, upon which the roller frame rests, and the rear brackets are made in two parts,—a fixed member 10, which is bolted to the floor, and an adjustable member 11, which carries the roller bearing for the roller frame.

The adjustable member 11 is guided for its vertical movement in side flanges in the fixed member 10, and is held in position by studs 12 which extend through slots in the plate 11, and the adjustable member of each bracket rests upon and is sustained by a wedge 14. These wedges are mounted on a plate 15 supported in brackets 16, so as to slide therein, and the plate 15 extends across the rear of the press, provided with a hand lever 17, pivoted in vertical position to an upright standard 18, so that by shifting the hand lever 17, the wedges may be partially withdrawn to allow the adjustable members of the rear bracket to be lowered for the distance required. Normally, however, the pairs of brackets in front and rear support the rollers 6 at a fixed height and the roller frame and the brackets form a trestle on each side, from front to rear of the press, across the platen, and normally free from the platen.

The bundle of veneered or other stock is indicated at 19, provided with top and bottom plates 20, 21, to form a top and bottom cover for the stock. This bundle is made up of the proper size and number of pieces, when the stock is glued and is placed on a truck, which carries roller slides, the top surfaces of which are of the same height as the roller slide 7 supported by the brackets

4 and 8. The roller slides 7 for the press extend out beyond the brackets on each side a convenient distance so that the roller slides 7 are about twice as long as the width of the bundle. These slides not being secured to the supporting brackets can be shifted lengthwise; and in order that they maintain their lateral position, a recessed guide block is bolted to the front edge of the platen, one guide block 23 for each front bracket. These guide blocks receive the lower ends of the roller slides 7, and are provided with reëntering flanges to engage the webbed portion of the slides, while the recesses are of sufficient depth to allow for the normal movement of the platen without contact with the flanges of the slides.

To shift the bundle of stock from the truck upon which it is mounted to the roller slides 7 over the platen, the slides are adjusted lengthwise, as shown in Fig. 2, and there is a stop 24 on the slide frame to prevent the slides from being drawn out to any greater extent in front, and a corresponding stop 25 is also provided to limit the rearward movement of the slides, these stops coming in contact with the guide blocks 23. The car is moved up to the front of the press, and the bundle of stock rolled from the slides on the car to the slides 7 over the platen 3. A series of I-beams, 26 for the top of the bundle, and 27 for the bottom, are provided, and these I-beams are of such a height that they can be readily located in place across the bundle, with a space 28 between the top of the I-beams and the bottom of the bundle, and a space 29 between the top of the upper I-beams and the head of the press. The platen 3 is then raised. This raises the I-beams on the platen until they come in contact with the bottom plate of the bundle, when the weight is at once relieved from the roller slides. The movement of the platen is continued until the bundle is properly compressed, and a series of retaining clamps 31 are provided to engage the flanges of the I-beams, the clamps each being provided with a clamp rod 32 and a turn buckle 33, so that the clamps can be tightened to hold the bundle in its compressed condition. The roller slides, which are during the application of the pressure free, are then pushed to the rear, as shown in Fig. 4. The truck 34 is then brought into proper position to receive the bundle underneath the projecting ends of the slides, and the platen is then lowered, again transferring the weight to the roller slides and freeing the clamped bundle from the press, and the bundle can then be rolled to the rear over the truck. The operator then shifts the hand lever 17, partially withdrawing the wedges 14 which support the upper members of the rear brackets and the bundle is lowered until the I-beams receive the weight

on the platform of the car, and the roller slides are again released from the weight, when they can be withdrawn to their normal position, leaving the bundle on the truck to be transported wherever desired.

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

1. In a veneer press, the combination with the platen, of fixed supports at the front and the rear of the press, a track loosely mounted on said supports and extending across the platen, said track members being of a length to be extended beyond the platen to carry the clamped bundle partially beyond the press.

2. In a veneer press, the combination with the platen, of fixed supports at the front and the rear of the press, a track loosely mounted on said supports and extending across the platen, normally out of contact therewith, clamp beams for the retaining clamps of greater height than the track members, said track members being of a length to be extended beyond the platen to carry the clamped bundle partially beyond the press.

3. In a veneer press, the combination with the platen, of fixed supports at the front and the rear of the press, a track loosely mounted on said supports and extending across the platen, said track members being of a length to be extended beyond the platen to carry the clamped bundle partially beyond the press, with means for lowering the fixed supports for the track at the rear to lower the load.

4. In a veneer press, the combination with the platen, of fixed supports at the front and the rear of the press, a track loosely mounted on said supports and extending across the platen, normally out of contact therewith, clamp beams for the retaining clamps of greater height than the track members, said track members being of a length to be extended beyond the platen to carry the clamped bundle partially beyond the press, with means for lowering the fixed supports for the track at the rear to lower the load.

5. In a veneer press, the combination with the platen, of fixed supports at the front and the rear of the press, a track loosely mounted on said supports and extending across the platen, said track members being of a length to be extended beyond the platen to carry the clamped bundle partially beyond the press, said rear supports comprising a fixed base portion and a vertically movable upright portion, and means normally to support said upright portion and adapted to be withdrawn to lower the load.

6. In a veneer press, the combination with the platen, of fixed supports at the front and the rear of the press, a track loosely mounted on said supports and extending across the platen, normally out of contact therewith,

clamp beams for the retaining clamps of greater height than the track members, said track members being of a length to be extended beyond the platen to carry the clamped bundle partially beyond the press, said rear supports comprising a fixed base portion and a vertically movable upright portion, and means normally to support said upright portion and adapted to be withdrawn to lower the load.

7. In a veneer press, the combination with the platen, of fixed supports at the front and the rear of the press, a track loosely mounted on said supports and extending across the platen, said track members being of a length to be extended beyond the platen to carry the clamped bundle partially beyond the press, said rear supports comprising a fixed base portion and a vertically movable upright portion, with wedges to support the same, with lever and connecting plate to withdraw the wedges to allow the load to descend.

8. In a veneer press, the combination with the platen, of fixed supports at the front and the rear of the press, a track loosely mounted on said supports and extending across the platen, normally out of contact therewith,

clamp beams for the retaining clamps of greater height than the track members, said track members being of a length to be extended beyond the platen to carry the clamped bundle partially beyond the press, with guides secured to the platen at the front edge thereof to prevent the displacement of the track when freed from the load.

9. In a veneer press, the combination with the platen, of fixed supports at the front and the rear of the press, a track loosely mounted on said supports and extending across the platen, normally out of contact therewith, clamp beams for the retaining clamps of greater height than the track members, said track members being of a length to be extended beyond the platen to carry the clamped bundle partially beyond the press, with means for lowering the fixed supports for the track at the rear to lower the load, and guides secured to the platen at the front edge thereof to prevent the displacement of the track when freed from the load.

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