

No. 717,255.

Patented Dec. 30, 1902.

A. S. NICHOLS.
VENEER DRIER.

(Application filed Oct. 24, 1901.)

(No Model.)

Fig. 1.

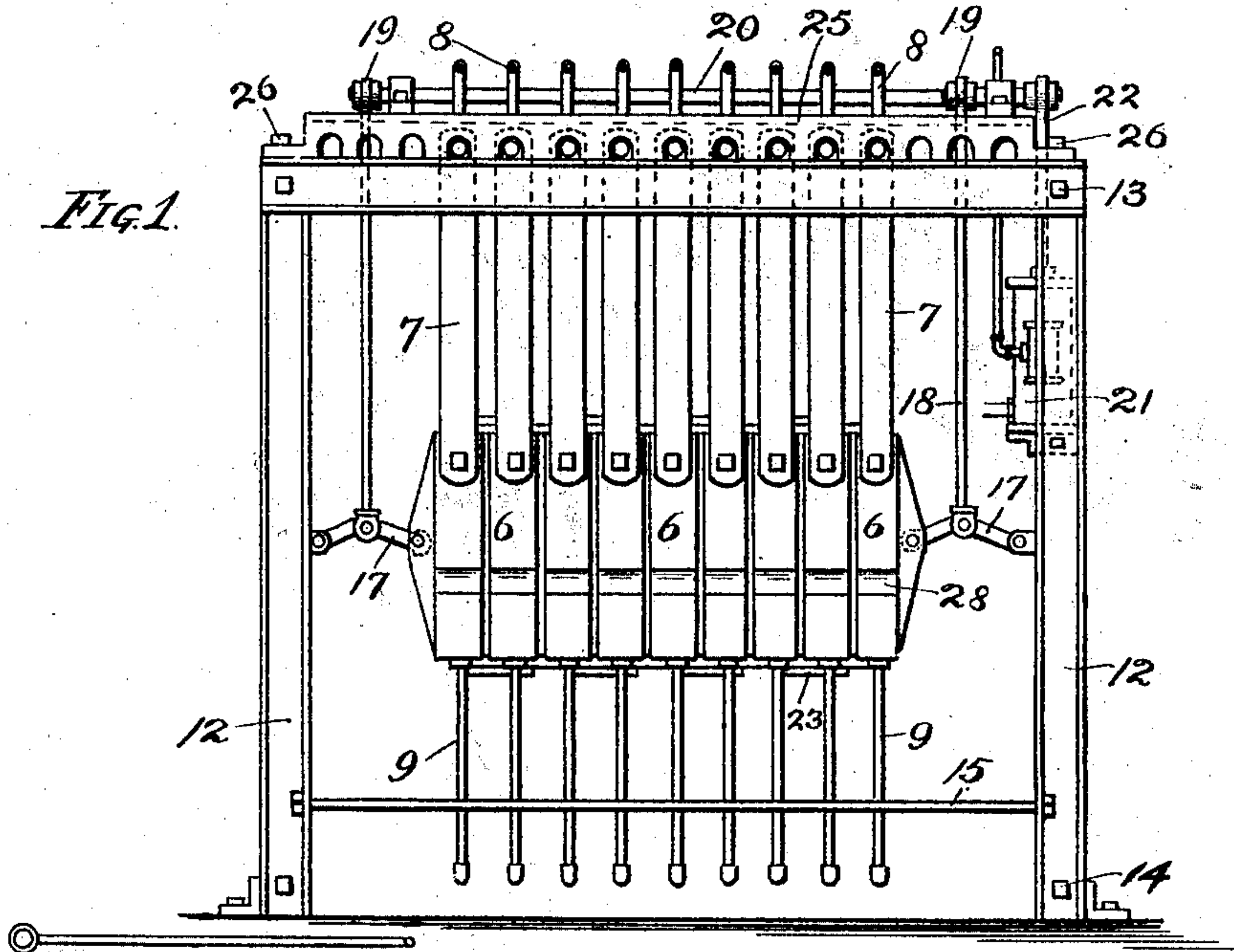


Fig. 2.

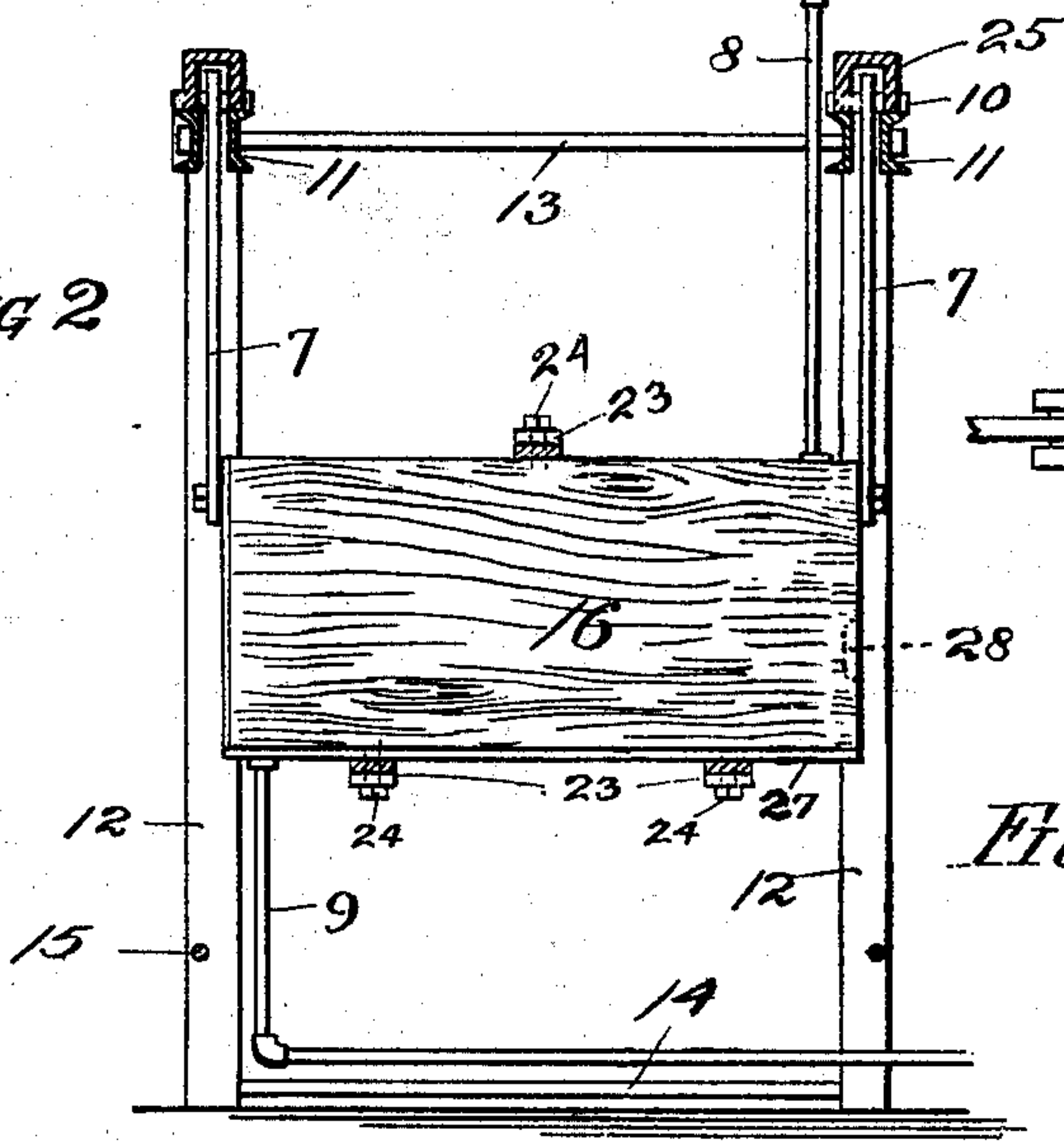


Fig. 3.

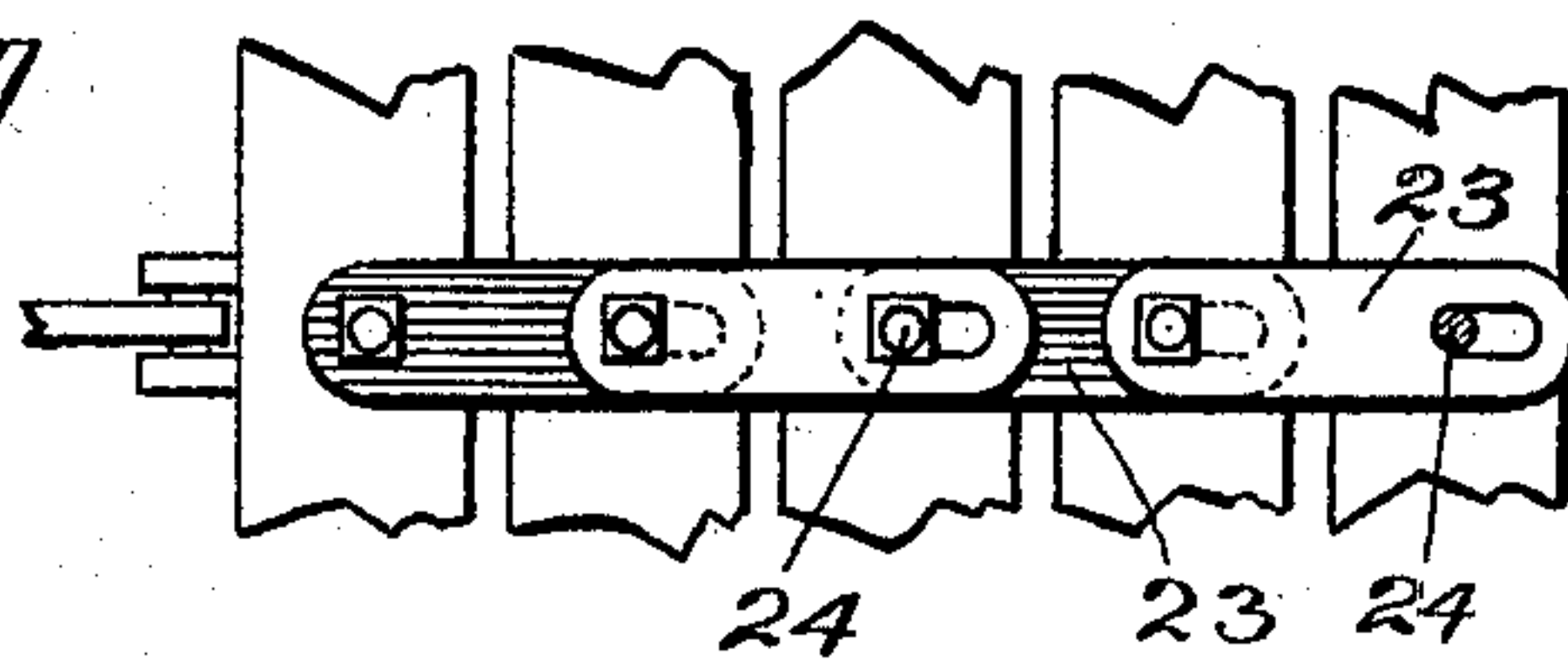


Fig. 4.

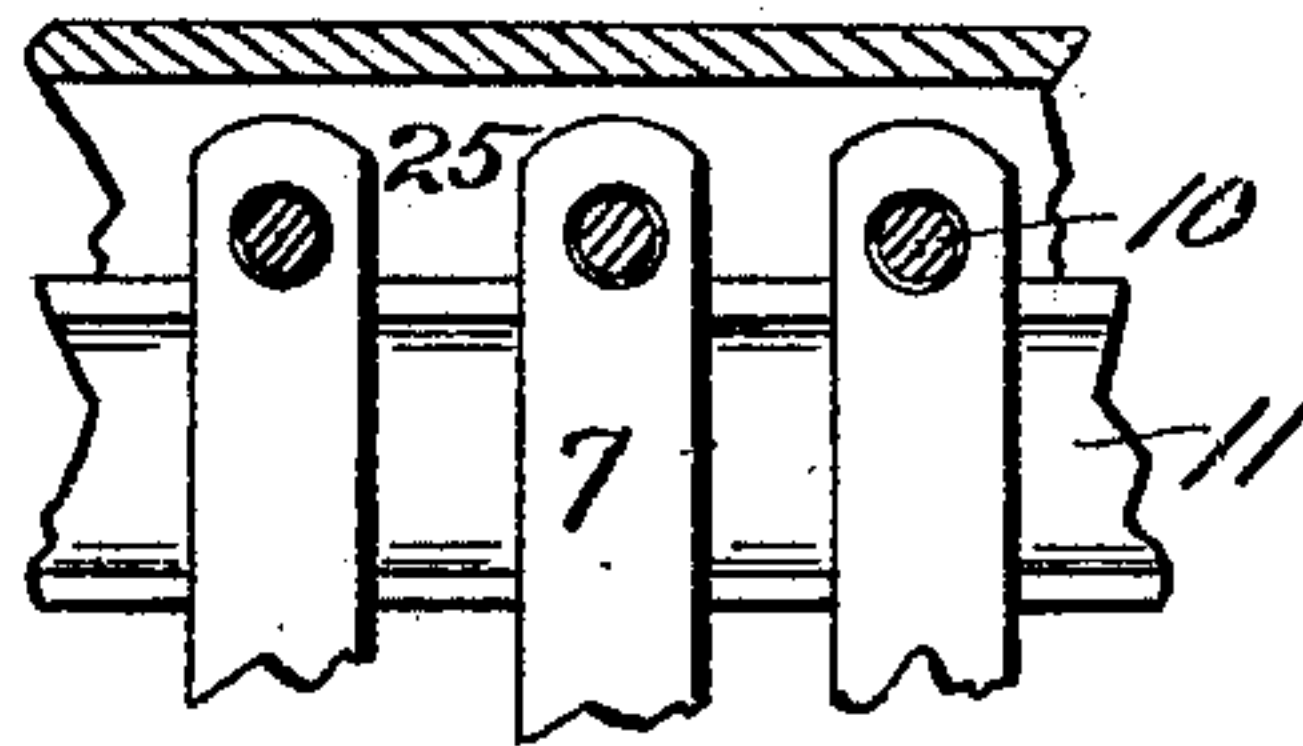
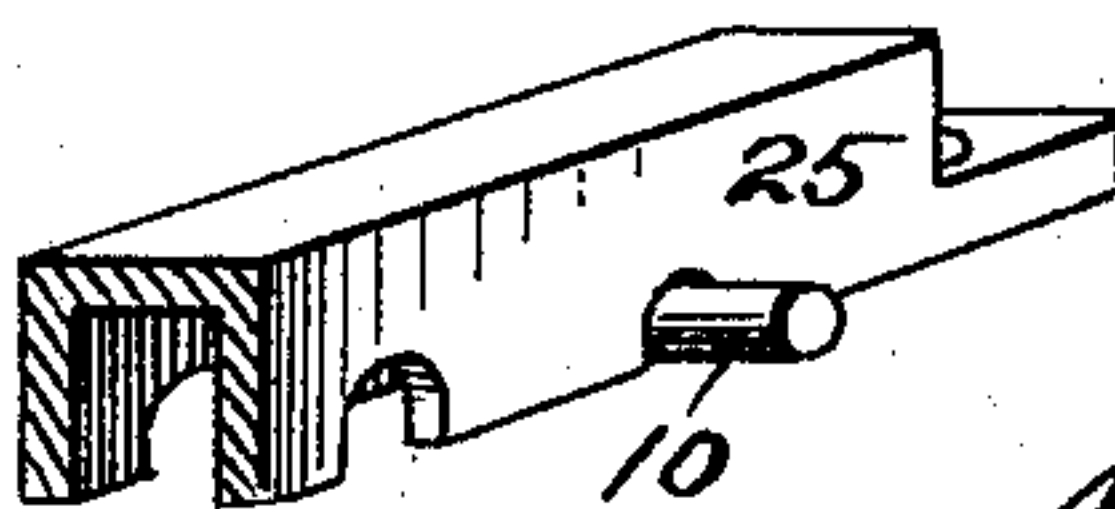


Fig. 5.



WITNESSES:

L. B. Townsend,
J. W. Munday.

INVENTOR.

Aaron S. Nichols

BY

J. W. Munday, Wm. T. Adcock,
ATTORNEYS

UNITED STATES PATENT OFFICE.

AARON S. NICHOLS, OF CHICAGO, ILLINOIS.

veneer-drier.

SPECIFICATION forming part of Letters Patent No. 717,255, dated December 30, 1902.

Application filed October 24, 1901. Serial No. 79,785. (No model.)

To all whom it may concern:

Be it known that I, AARON S. NICHOLS, a citizen of the United States, residing in Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Veneer-Driers, of which the following is a specification.

This invention is an improvement in veneer-driers having their platens suspended in vertical position and opened and closed automatically by suitable mechanism.

The invention relates mainly to the construction of the platen-supports and will be fully understood by the accompanying drawings, in which I show, at—

Figure 1 a front elevation of a veneer-drier embodying my invention, and at Fig. 2 a transverse vertical section of the same. Figs. 3, 4, and 5 are enlarged detail views of parts of the apparatus.

In said drawings, 6 6 represent the platens of the drier, flexibly joined to supporting-bars 7 7 and heated internally by steam admitted by the pipes 8. The condensations are conducted away by pipes 9. The hanger-bars are pivoted at their upper ends on pins 10, and these pins rest on longitudinal supporting-beams 11 11, one at each side of the bars. The beams are supported at either end on corner-posts 12, and the posts at each end of the machine are tied together by bolts 13 and 14. The posts on each side are also united at the bottom by a bolt 15. The platens are adapted to receive the veneers 16 between them and are forced into close contact with them by toggles 17 at each end of the series of platens. These toggles are extended and contracted by rods 18, operated by cranks 19 on the rock-shaft 20, which is operated at suitable intervals by any suitable means. I have shown the steam-cylinder 21, having a piston operating a crank 22 on the shaft, as a desirable form of motor for this purpose. The toggles when contracted draw the end platens away from their neighbor platens, and in order that the other or intermediate platens may also open at the same time I connect each pair of adjacent platens together by a short link 23, each receiving a bolt at one end and having a slot in its other end. The links are secured to the platens by bolts 24, passing through the close-fitting opening

in one link and the slot of another link. The links overlap each other, as seen at Fig. 3, and it is desirable that one series of them be placed on the top of the platens and two other series below them. By means of the links the opening movements of the end platens are communicated to the middle ones, so that all open equally and at the same time and allow the moisture to escape from all the veneers. In these opening movements the platens swing on the pivots 10; but it is not desirable that the pivots change positions at all, and in order that they may remain stationary in their proper relative positions at all times I place over each of the series of pivots 10 a notched spacing-bar 25 and bolt it down at its ends by bolts 26. This bar should be rigid, and it may be made of channel-iron, as shown, so that it will rest on both of the companion beams 11 and engage the pivots at both sides of the hangers 7, though the channel feature of the bar is not necessary.

The platens are provided with bottom ledges 27, on which the veneers are positioned, and with end recesses 28 to give opportunity to take hold of the veneers.

I claim—

1. The veneer-drier having vertical platens supported by pivoted hangers, beams on which the pivots of the hangers rest, and a notched spacing-bar sitting over the pivots, substantially as specified.

2. The combination in a veneer-drier, of a series of vertically-hung platens, mechanism for opening and closing the platens, plain-surfaced beams supporting the pivots of the platen-hangers, and notched bars sitting over and spacing said pivots, substantially as specified.

3. The combination in a veneer-drier, of a series of vertically-hung platens, mechanism for opening and closing the platens, slotted links connecting adjacent platens and causing the opening of all of them, beams supporting the pivots of the platen-hangers, and means for holding said pivots stationary as to location, substantially as specified.

4. The combination in a veneer-drier, of a series of vertically-hung platens, mechanism for opening and closing the platens, slotted links connecting adjacent platens and caus-

ing the opening of all of them, beams supporting the pivots of the platen-hangers, and means common to all the pivots for holding them stationary as to location.

5 5. The combination with the platens, the hangers and the pivots of the latter, of the beams supporting the pivots, and stationary spacing-bars, each controlling all the hanger-pivots on one side of the machine, substantially as specified.

10 6. The combination in a veneer-drier of a

series of platens hung in vertical positions upon bars pivoted stationarily at their upper ends, mechanism for opening the end platens, and slotted links connecting all the adjacent 15 platens together so that the opening of the end platens causes the opening of the intermediate platens, substantially as specified.

AARON S. NICHOLS.

Witnesses:

H. M. MUNDAY,

JOHN W. MUNDAY.