

No. 750,058.

PATENTED JAN. 19, 1904.

A. S. NICHOLS.
VENEER DRIER.

APPLICATION FILED APR. 1, 1903.

NO MODEL.

Fig. 1

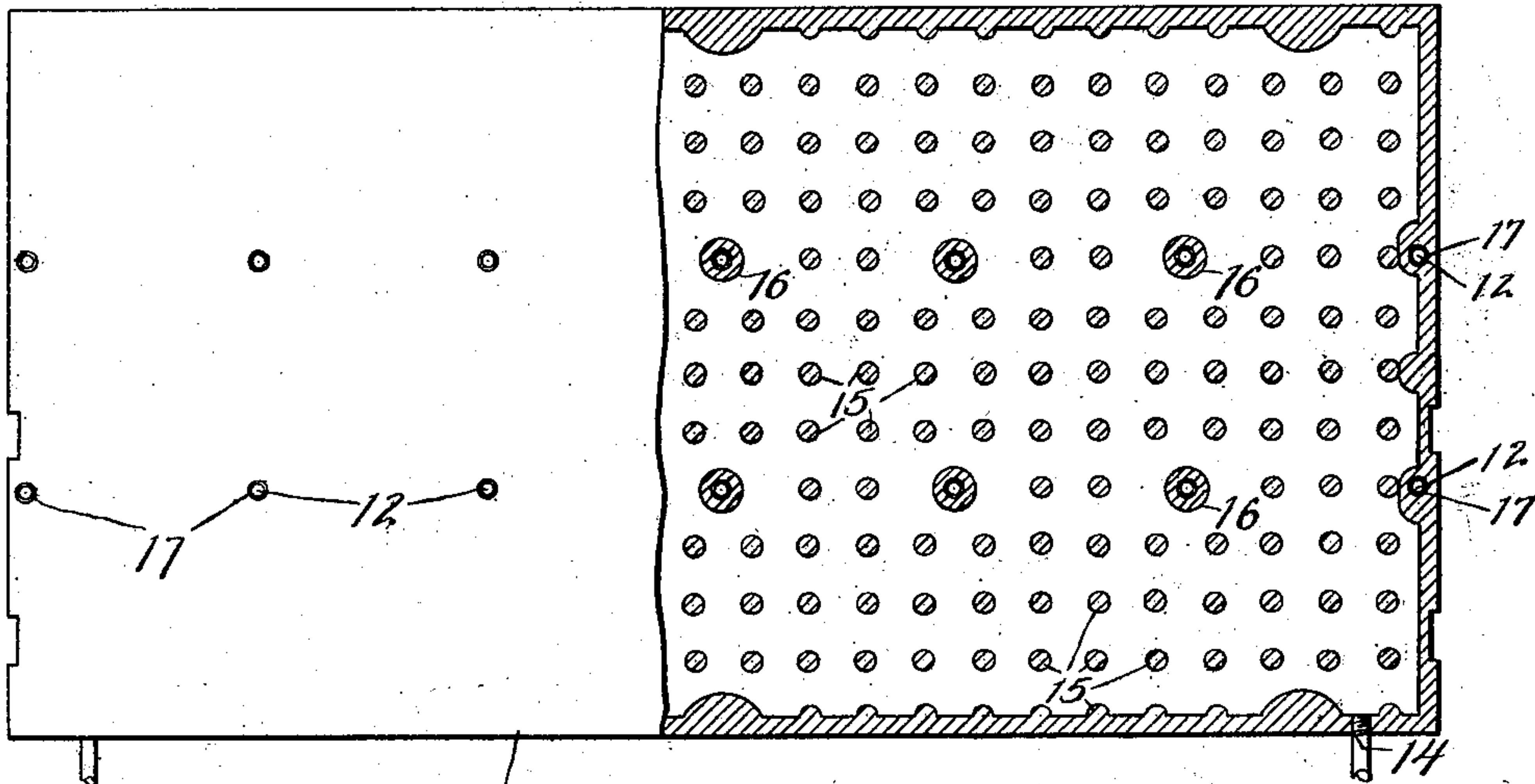


Fig. 2

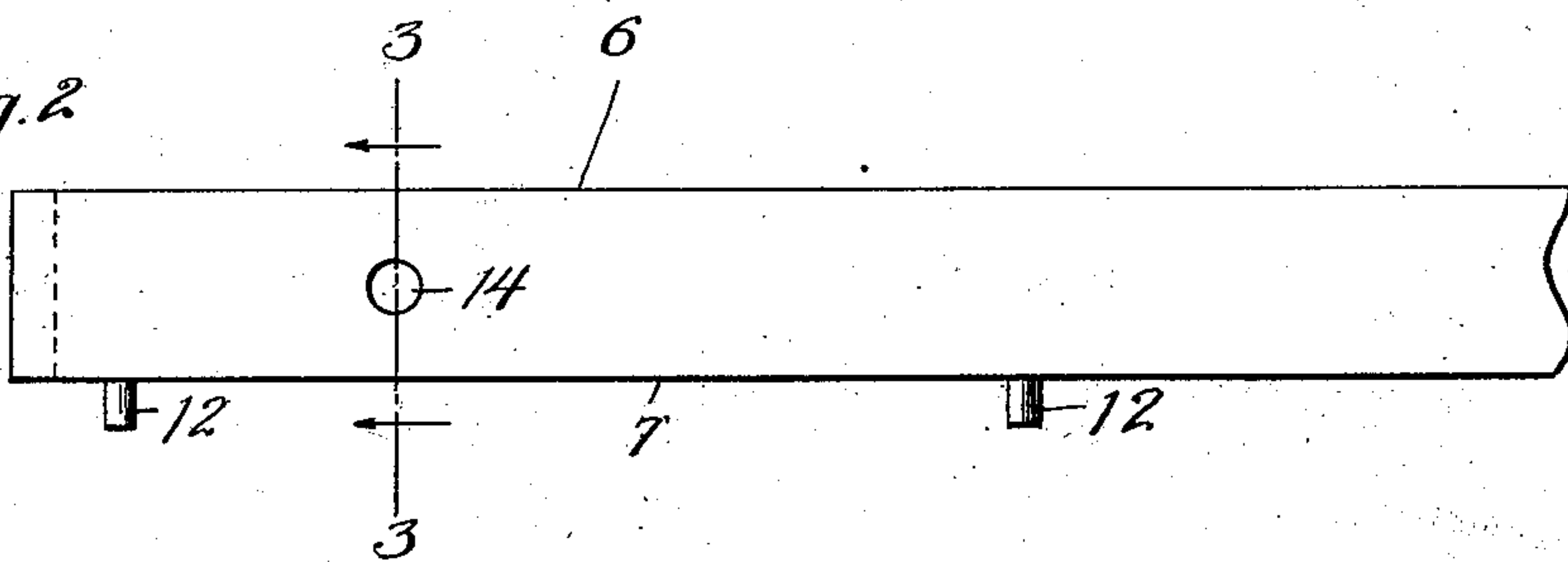


Fig. 3

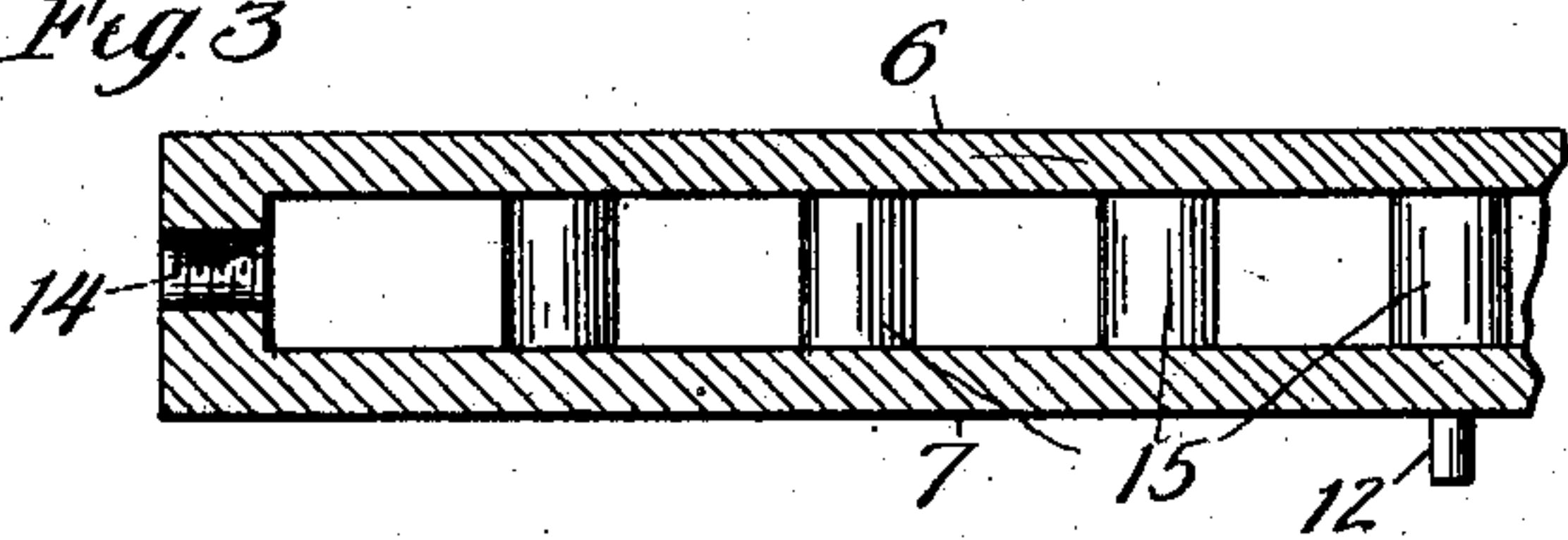


Fig. 4

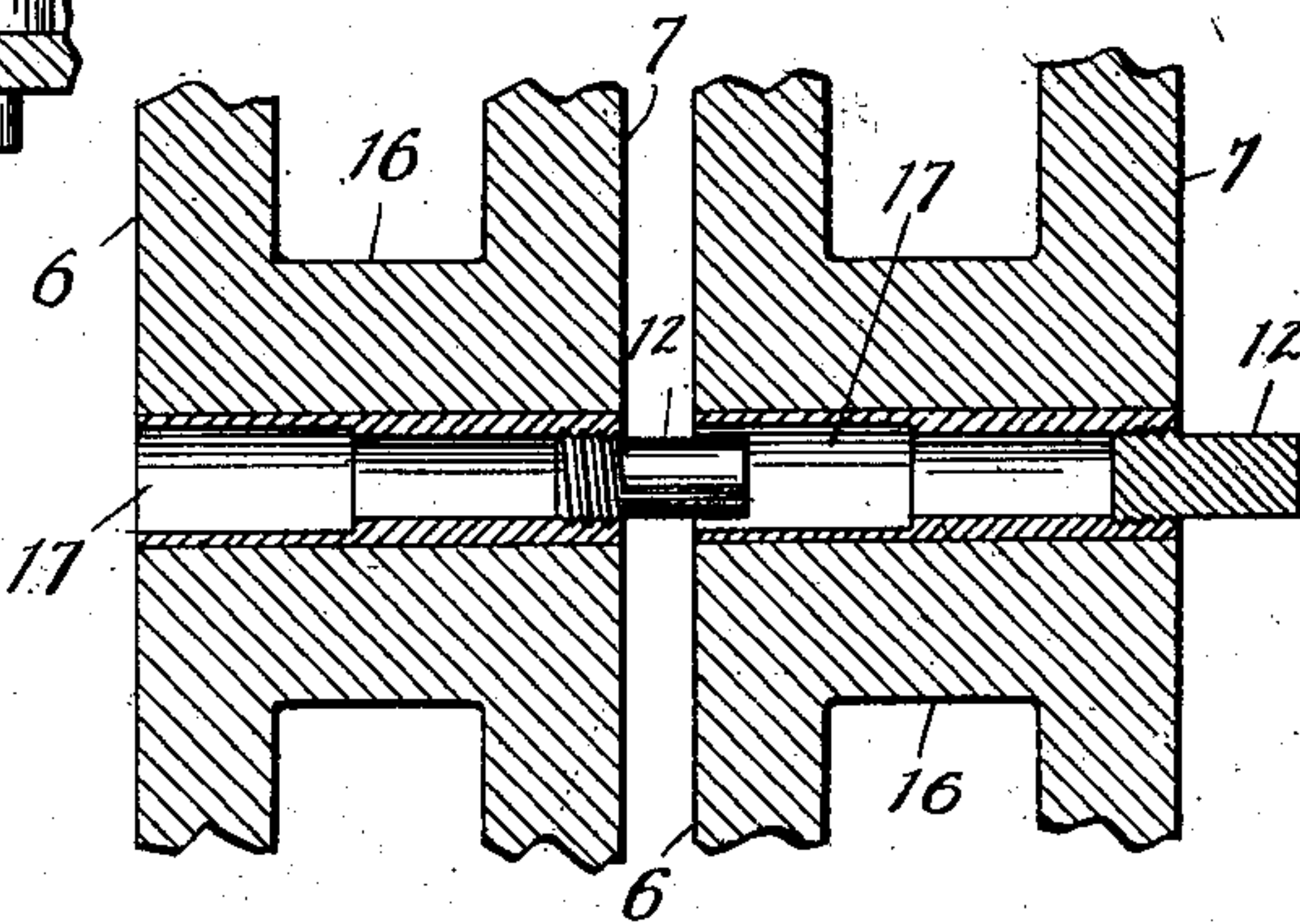
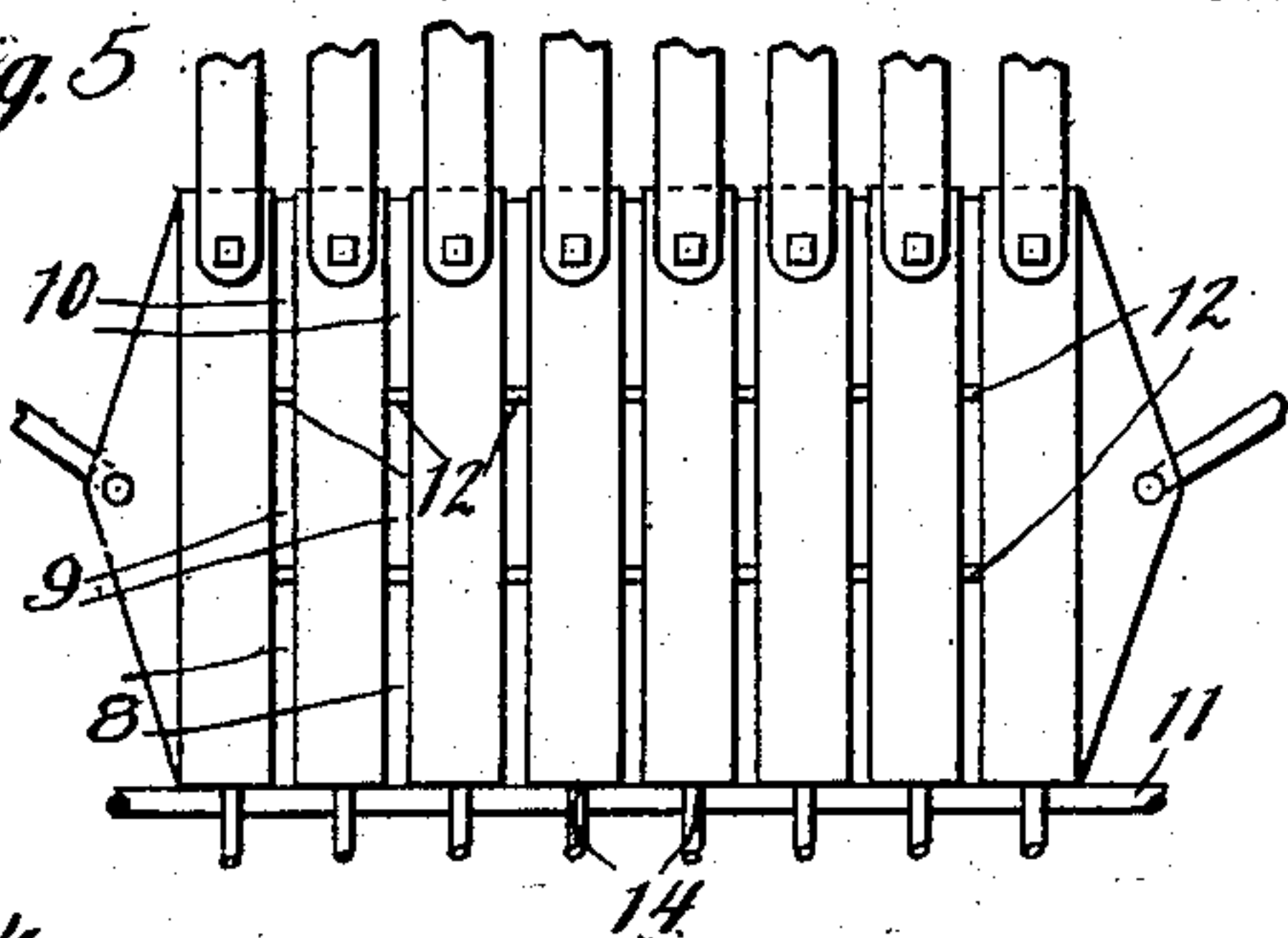


Fig. 5



Witnesses:

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UNITED STATES PATENT OFFICE.

AARON S. NICHOLS, OF BOSTON, MASSACHUSETTS.

VENEER-DRIER.

SPECIFICATION forming part of Letters Patent No. 750,058, dated January 19, 1904.

Application filed April 1, 1903. Serial No. 150,557. (No model.)

To all whom it may concern:

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

In the use of that class of veneer-driers employing vertical heated platens it is customary to provide supports for the veneers at the bottom edges of the platens, and the veneers rest edgewise on the supports. The veneers are usually much narrower than the platens, and consequently the upper part of the spaces between the platens is unfilled, so that there is no stock in such unfilled portions to hold the platens apart, as there is at the bottom, and the platens are thus allowed to come closer together at the top than at the bottom, and in addition to this objection is the fact that only a part of the surfaces of the platen is utilized in the driers as now constructed.

My object in this invention has been to devise means whereby the entire faces of the platens may be kept in active service all the time, thereby greatly increasing the capacity of the driers in operating upon narrow stock and enabling the placing of stock between the upper portion of the platens, as well as between the lower portions thereof.

Another object which I have had in view in the invention has been to prevent leakage of steam at the transverse openings formed in the platen to receive the veneer-supporting devices. As made by me the platens have been formed of cast metal, and the openings are extended through them, being bored through bosses integral with and connecting the flat sides of the platen together. This leakage is very apt to occur in the bosses by reason of imperfections in the casting.

The invention consists in the novel features hereinafter set forth whereby the objects stated are accomplished.

In the accompanying drawings, Figure 1 is a plan view, partially broken away, of one of the platens of a drier embodying my improvement. Fig. 2 is an edgewise view of the same. Fig. 3 is a section on the line 3 3 of Fig. 2. Fig. 4 is a section showing corresponding parts

of two adjacent platens. Fig. 5 is a partial front elevation.

In said drawings, 6 and 7 represent the faces of adjacent vertical veneer-drier platens, between which the stock may be placed to be dried. The platens are adapted to support and act upon two or more courses of veneers arranged one above another at the same time, the lower courses 8 being supported in the ordinary way—as, for instance, on the rods 11, extending across the drier just below the platens—and the middle and upper courses 9 and 10 being supported on pins 12, secured in each platen and projecting into the open ends of tubes 17, inserted in the next adjacent platens, as described below. The platens are hollow and provided with openings 14 along their edges, whereby they may be connected to the steam supply and discharge, and between the flat sides are numerous bosses 15, whereby the sides are rendered mutually supporting. At intervals in longitudinal lines along the faces of the platens are large bosses 16, connecting the faces 6 and 7 and through which openings are made adapted to receive and fit the short tubes or bushings 17. These tubes are threaded at one end to receive the threaded ends of the pins 12, and at the other end they are cored out, so as to enable them to receive the pins of the next adjacent platen. The pins and tubes of each platen are arranged so that all the pins carried by it project from the same face, and all the open ends of the tubes are at the other side or face, so that the pins of any one platen enter the open ends of the tubes of the next adjacent platen on one side and the open ends of the tubes of the same platen receive the pins of the next adjacent platen on the other side. It is not necessary that the pins should fit closely in the open ends of the tubes, as their only function is to support the veneers, and it is only necessary for that purpose that they be rigid in the platen to which they are attached. By the use of these interfitting pins and openings arranged in lines as set forth I am enabled to put into each drying-space of the drier two or more courses of veneers where only one could be placed before without increasing the size of the platens or the amount of steam required

to heat them, and at the same time the stock does not permit the tops of the platens to come any closer together when the pressure is on than the bottoms.

5 The pins 12 can be readily removed if at any time it is desired to operate upon stock too wide to be supported upon them. The openings in which the pins are inserted should not communicate with the steam-space of the
10 platen, and to prevent any possible leakage through the bosses 16, which is liable to occur by reason of some imperfection in the casting, I employ the bushings 17, fitting them in the openings through the bosses so tightly as to se-
15 cure this result.

I claim—

1. The veneer-drier having vertical platens provided with means on their acting faces for supporting courses of veneers, and also pro-
20 vided with openings on their opposite faces to receive the supporting means of adjacent platens.

2. The vertical platen for use in driers pro-
vided with transverse openings arranged in
horizontal lines, in combination with pins in- 25
serted in the openings and projecting from the
same side of the platen so they may support
the veneers.

3. The platen for use in driers, provided with
transverse openings arranged in horizontal 30
lines, said openings being furnished with bush-
ings having one end threaded, and pins in-
serted in such bushings at one end thereof,
the other end of the bushings being large
enough to admit the pins of another platen. 35

4. The steam-heated platen for use in driers
having transverse openings extending through
its flat sides and internal bosses connecting
the sides, and also having bushings in said
openings adapted to prevent leakage of steam. 40

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Witnesses:

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