

No. 730,326.

PATENTED JUNE 9, 1903.

W. E. WINES.
STEAM DRYING PRESS.
APPLICATION FILED APR. 7, 1903.

NO MODEL.

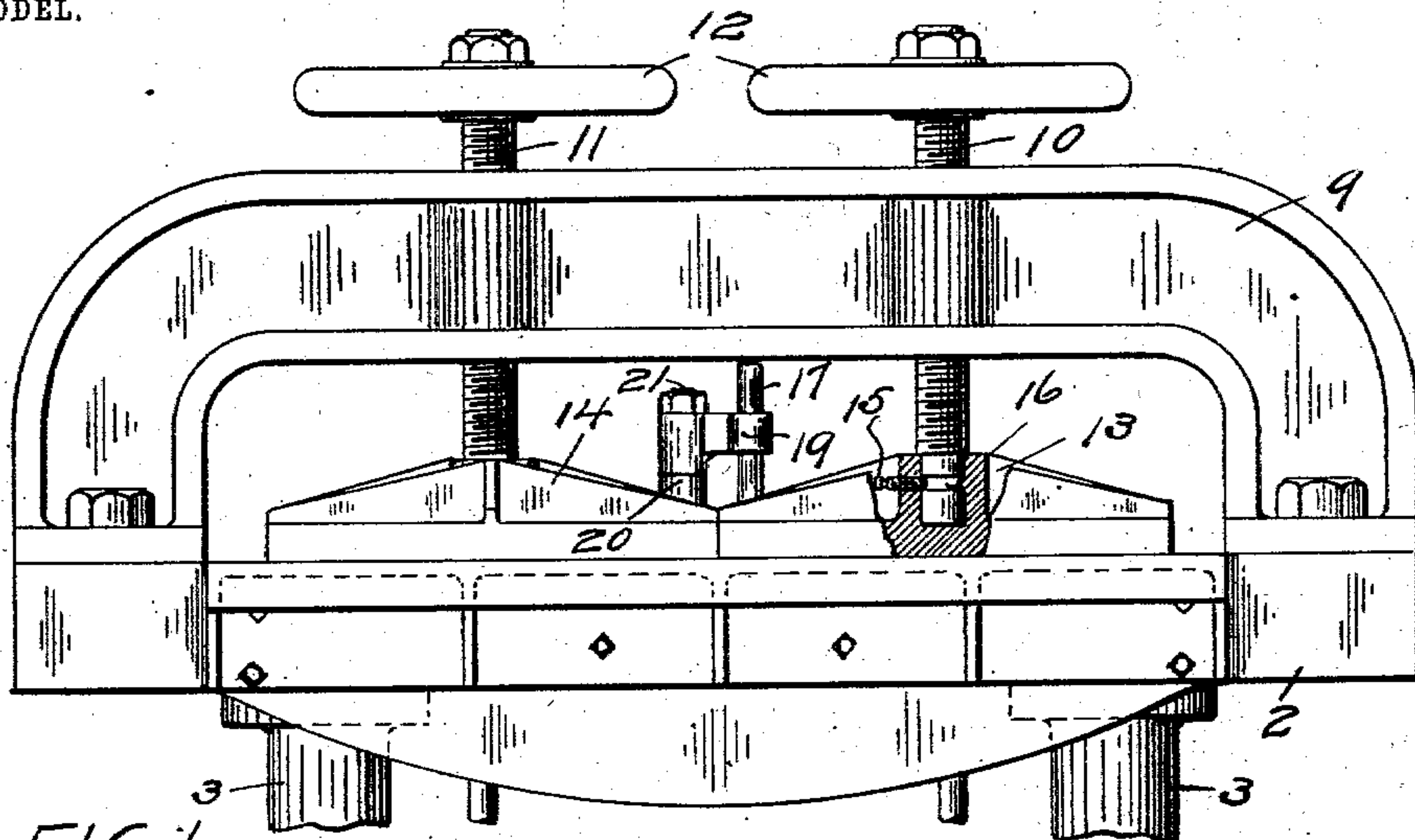


FIG. 1.

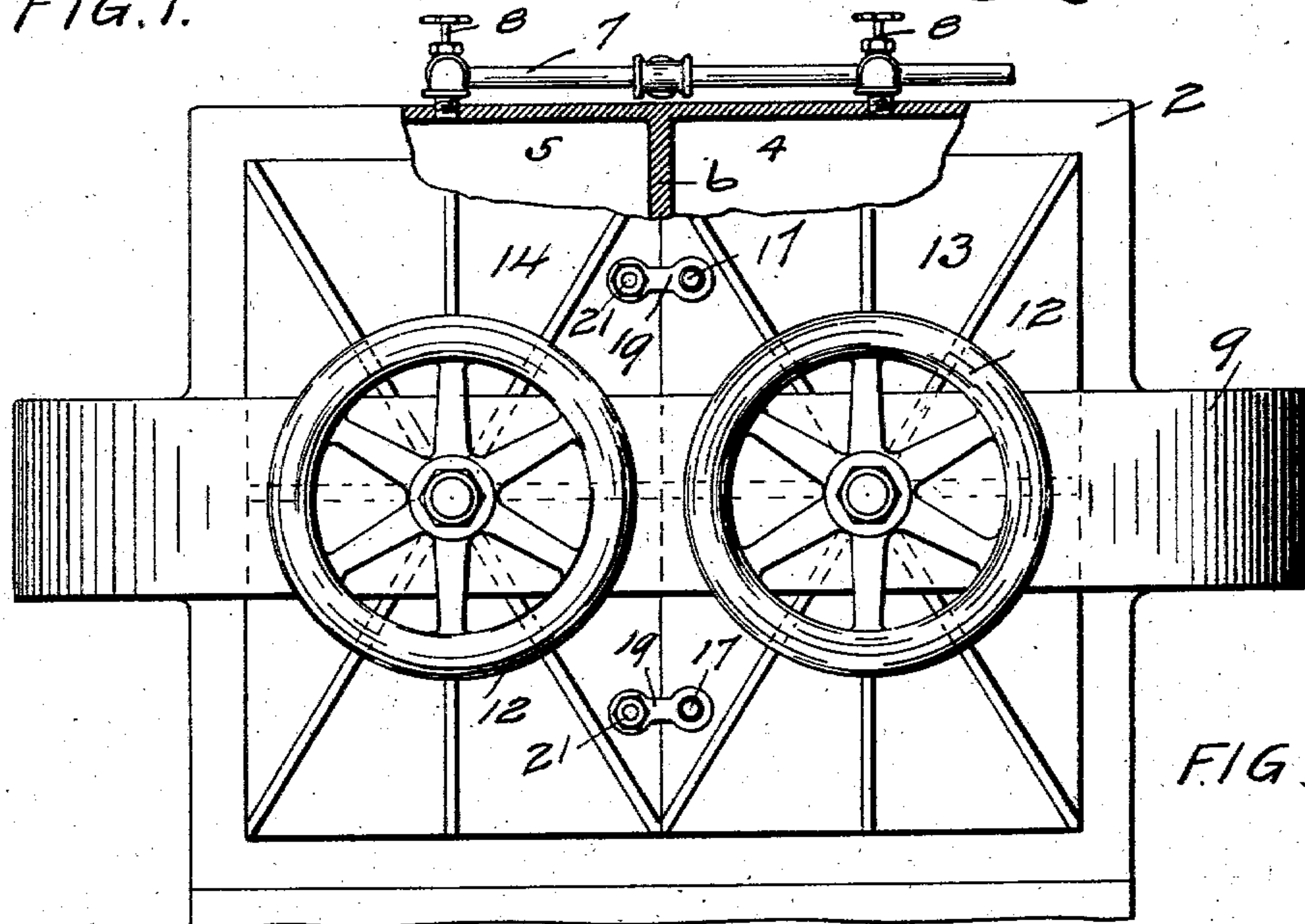


FIG. 2.

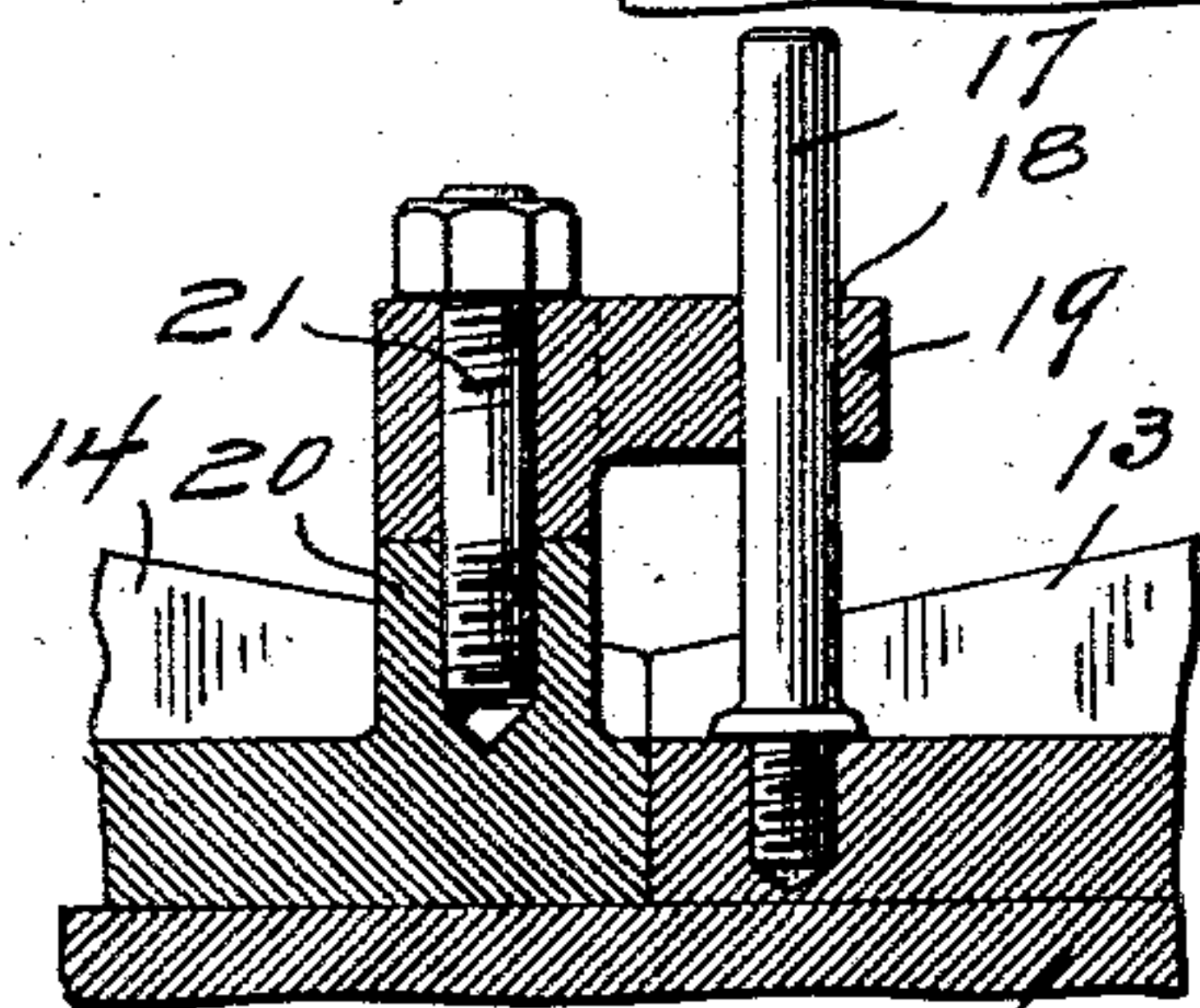


FIG. 3.

WITNESSES
E. J. Standa
S. V. Griffin

FIG. 4.

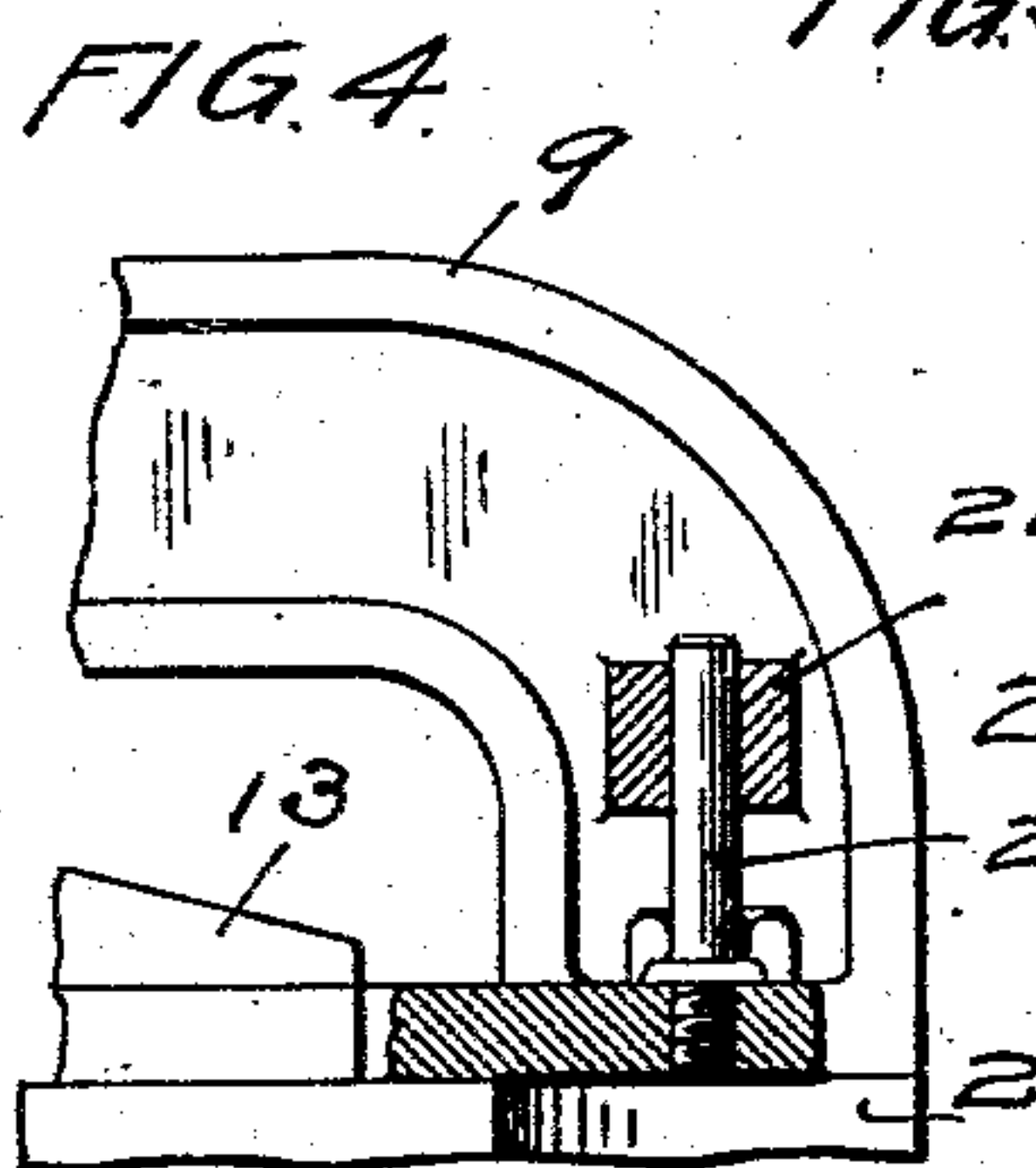
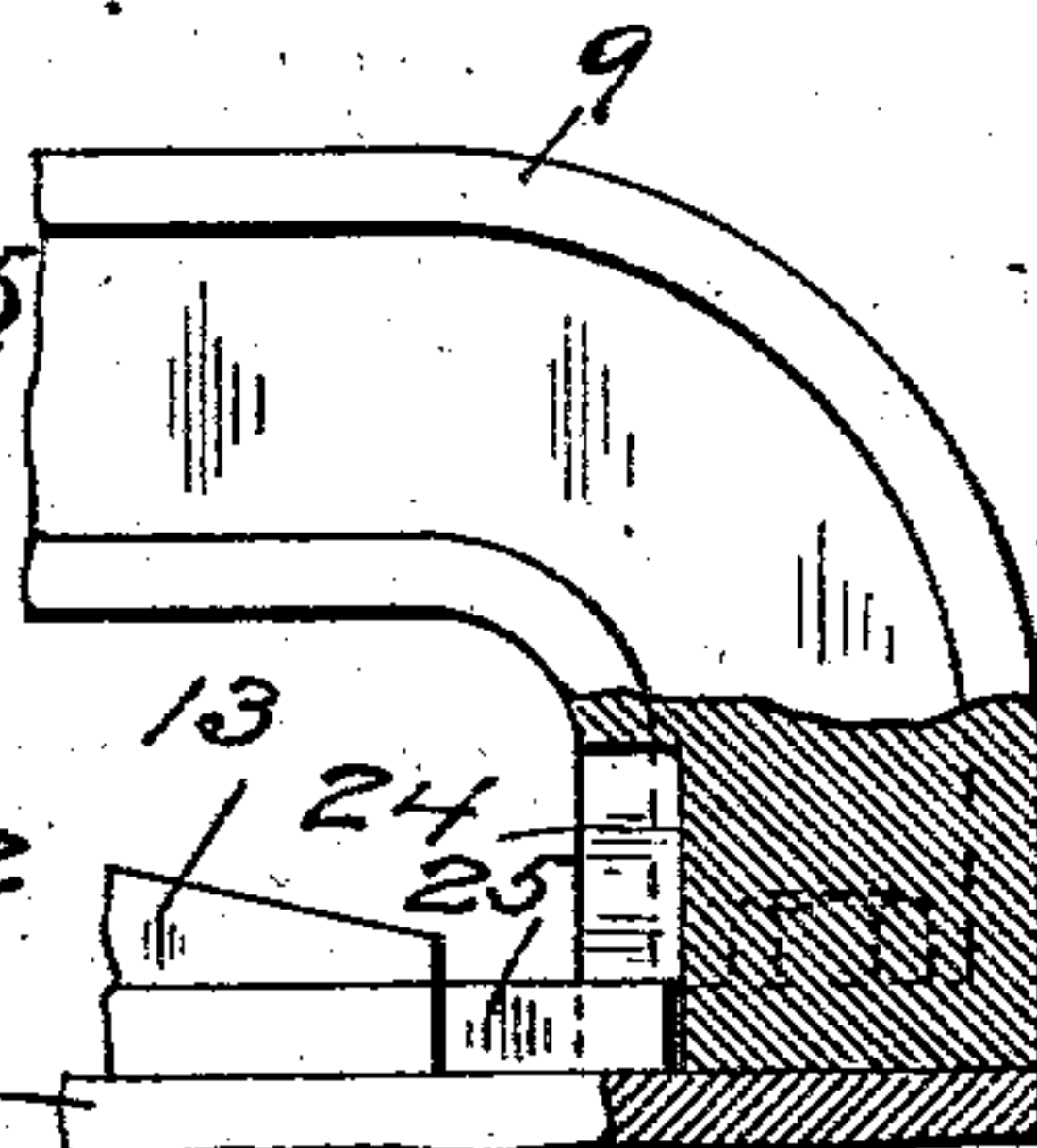


FIG. 5.



INVENTOR
WALTER E. WINES
BY *Paul H. Pary*
HIS ATTORNEYS

UNITED STATES PATENT OFFICE.

WALTER E. WINES, OF MINNEAPOLIS, MINNESOTA.

STEAM DRYING-PRESS.

SPECIFICATION forming part of Letters Patent No. 730,326, dated June 9, 1903.

Application filed April 7, 1903. Serial No. 151,435. (No model.)

To all whom it may concern:

Be it known that I, WALTER E. WINES, of Minneapolis, county of Hennepin, State of Minnesota, have invented certain new and useful Improvements in Steam Drying-Presses, of which the following is a specification.

My invention relates to drying-presses, designed particularly for use in newspaper-printing establishments where an impression of type in a form is taken to produce a matrix from which a stereotype-plate is made.

The object of my invention is to provide a press wherein a matrix for a single or double page of newspaper matter can be made with equal facility.

The invention consists generally in various constructions and combinations, all as hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a side elevation of a steam drying-press embodying my invention. Fig. 2 is a plan view of the same, a portion of the base being broken away to show its interior construction. Fig. 3 is a detail of the guide connections between the platens supported above the base. Fig. 4 is a detail showing a form of guide arranged at the end of the base. Fig. 5 is a detail showing still another form of the guide.

In the drawings, 2 represents a hollow bed or base supported upon suitable standards 3 and divided into two compartments or chambers 4 and 5 by a transverse partition 6. A pipe 7 is connected with a suitable source of steam-supply and has valves 8, by means of which the admission of steam to the chambers 4 and 5 is controlled. By means of these valves steam may be admitted to both chambers simultaneously or to one of them alone. Mounted upon the base 2 is a yoke 9, wherein the screws 10 and 11 are mounted and provided with suitable hand operating-wheels 12. Upon the lower ends of these screws I arrange platens 13 and 14, that are secured to the screws by any suitable means, as by a set-screw 15, adapted to enter an annular groove 16 in the shank of the screw. The adjacent edges of these platens are close together or in sliding contact, if preferred, and the platen 13 is provided with a pin 17, that

is slidable within a hole 18 in an arm 19, that is supported on a lug 20 on the platen 14 by means of a screw-bolt 21. I prefer to provide a guide-pin 17 and an arm 19 at each end of the platens to hold them in proper relation to each other as they are raised or lowered. The platens are both shown in their down position in Fig. 1, and each platen can be raised independently of the other, or the two can be raised simultaneously, if preferred. As the arms 19 have considerable latitude of travel on the pins 17, it is evident that the platen 14 can be depressed to form the matrix for a single page without moving the platen 13 from its elevated position, and the reverse will also be true. If only one platen is used, the steam will be admitted into the chamber beneath, while the other platen will remain stationary and its chamber will not be heated. I am thus able to utilize the press either to form a matrix for a single page or without any waste of time or unnecessary labor to adapt the apparatus for forming a matrix for a double page.

In Fig. 4 I have shown a modification in the construction of the guide, which consists in providing lugs 22 on the yoke 9, near the ends thereof, and having holes therein to receive pins 23, that are carried by the platens 13 and 14. In Fig. 5 I have shown still another modification, which consists in providing recesses 24 in each end of the yoke to receive lugs 25 on the platens to hold them in proper alinement with respect to the bed of the press during the elevating and depressing operation.

I claim as my invention—

1. In a steam drying-press, the combination, with a hollow bed or base divided into a plurality of compartments connected with a source of steam-supply, a yoke mounted upon said base, and screws carried by said yoke, of platens mounted on said screws and vertically movable therewith, and suitable guides for said platens allowing simultaneous or independent movement thereof.

2. A steam drying-press, comprising a base or bed divided into independent compartments or chambers and having independent connections with a source of steam-supply, a yoke mounted upon said base, platens carried by said yoke, means for raising or low-

eringsaid platens, and a suitable guide device connecting said platens and permitting independent or simultaneous movement thereof.

3. In a steam drying-press, the combination, with a hollow bed or base divided by a transverse partition into independent chambers or compartments having suitable connections with a source of steam-supply, of a yoke mounted upon said base, screws having hand-wheels carried by said yoke, platens supported on said screws, upright pins provided on one of said platens near the ends

thereof, and arms having holes to receive said pins mounted on the other platen, said arms and pins forming guides for said platens and permitting simultaneous or independent movement thereof. 15

In witness whereof I have hereunto set my hand this 1st day of April, 1903.

WALTER E. WINES.

In presence of—

RICHARD PAUL,
S. V. GRIFFIN.