

(No Model.)

2 Sheets—Sheet 1.

R. GOFF.
VENEER PRESS.

No. 273,723.

Patented Mar. 13, 1883.

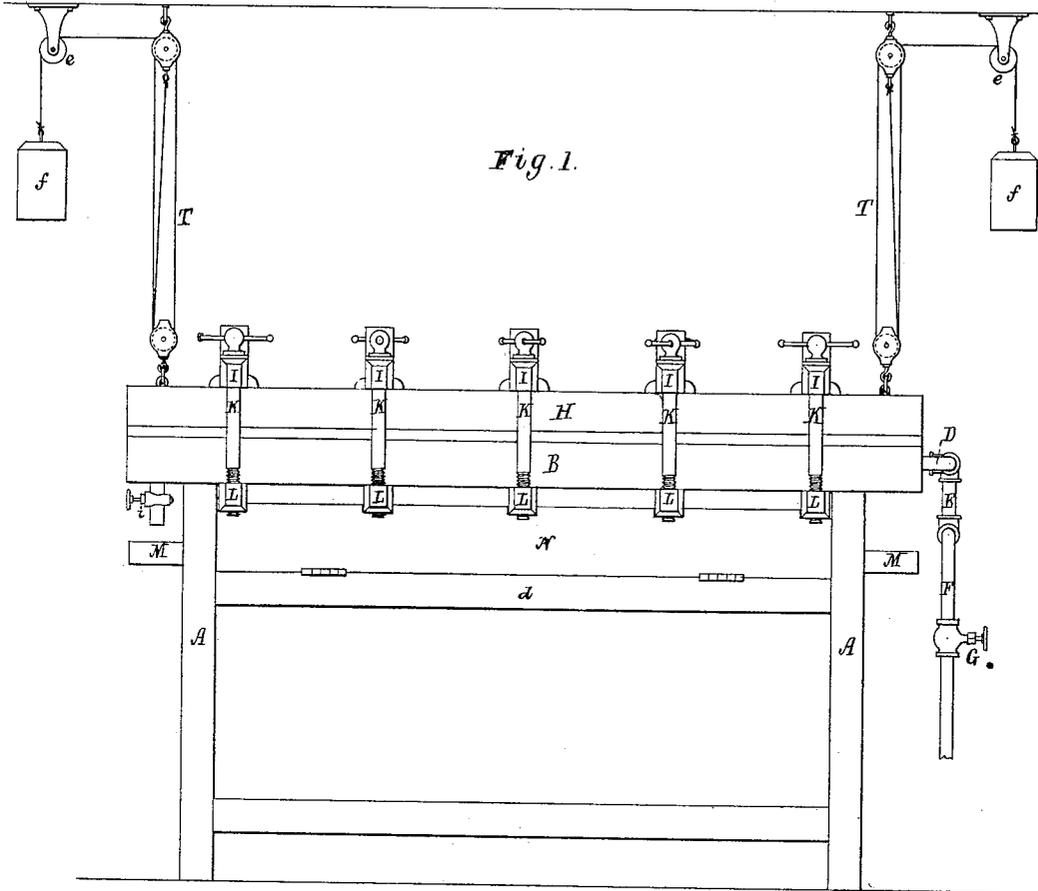


Fig. 1.

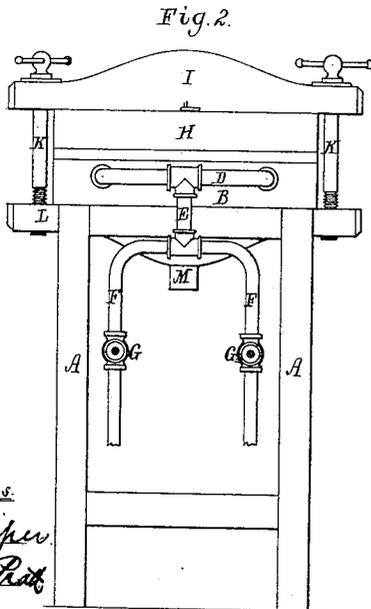


Fig. 2.

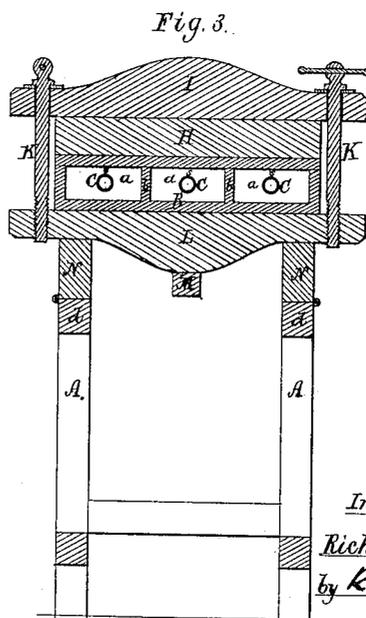


Fig. 3.

Witnesses.
S. N. Piper.
E. A. Pitt.

Inventor.
Richard Goff.
by R. K. Sibley atty

(No Model.)

2 Sheets—Sheet 2.

R. GOFF.
VENEER PRESS.

No. 273,723.

Patented Mar. 13, 1883.

Fig. 4.

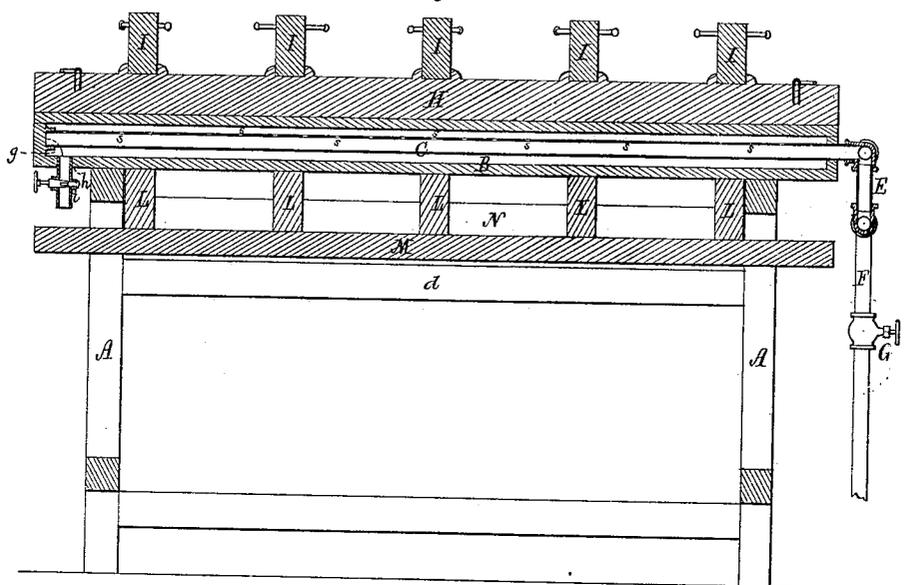
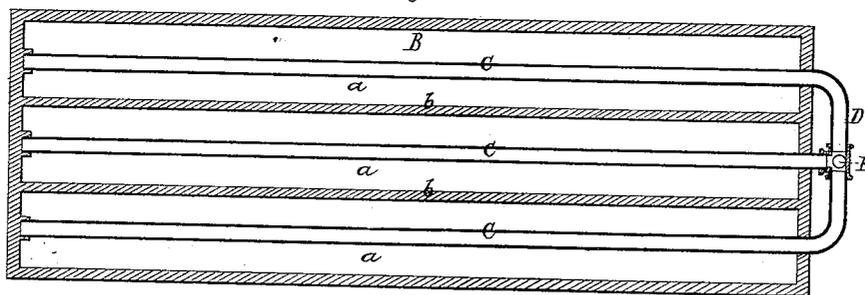


Fig. 5.



Witnesses.
S. N. Phipps
C. A. Rath

Inventor.
Richard Goff.
by *R. W. Eddy* atty.

UNITED STATES PATENT OFFICE.

RICHARD GOFF, OF ST. JOHN'S, NEWFOUNDLAND.

VENEER-PRESS.

SPECIFICATION forming part of Letters Patent No. 273,723, dated March 13, 1883.

Application filed November 3, 1882. (No model.)

To all whom it may concern:

Be it known that I, RICHARD GOFF, of St. John's, Newfoundland, have invented a new and useful Improvement in Veneering-Presses; and I do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a front elevation, Fig. 2 an end view, Fig. 3 a transverse section, and Fig. 4 a longitudinal section, of a press embodying my invention, the nature of which is defined in the claims hereinafter presented. Fig. 5 is a horizontal section of the heating and cooling bed, to be described, and which in the accompanying drawings is shown at B as supported by a suitable frame, A.

The heating and cooling bed is a shallow rectangular box having a flat top. The interior of the bed is divided into three compartments, *a*, by means of two vertical partitions, *b*, extending from end to end of the bed. In each compartment is arranged, lengthwise thereof, a pipe, C, foraminous, or punctured along its upper part with numerous fine holes, *s*, each of said pipes being closed at one end and opened at the other into a horizontal conduit, D, having at its middle a vertical conduit, E, from which two branch pipes, F, project, and are provided with stop-cocks G, as shown. One of such branch pipes is to communicate with the steam-space of a steam-generator, and the other with a reservoir or other means whereby cool water under a head or pressure may be discharged into the branch pipe as occasion may require, and from it be conducted into the foraminous pipes of the bed B.

Arranged immediately over the bed is a platen, H, across which is a series of bars, I, each of which is provided with two screws, K, arranged in it, as shown, and screwed into and through another bar of another series of bars, L, arranged under the bed in manner as represented. The several bars L are connected at their middles to a long bar, M, by means of which they may be raised or lowered simultaneously relatively to the bed. These bars L rest upon two rails, N, that are hinged to the frame A, so as to be capable of being turned either upward to carry the bars L up into

contact with the bed, or downward to admit of the bars being depressed, so as to rest upon the longitudinal bars *d* of the frame.

Near each end of the plate is a tackle, T, for raising it relatively to the bed, the upper block of the tackle being suspended from the ceiling or some proper object or timber. The rope of each tackle passes about a guide-pulley, *e*, and has attached to it a weight, *f*, sufficient to raise the platen upward at one end relatively to the bed. Furthermore, there is near one end, at the bottom of each partition of the bed, an opening, *g*, and near by there is a hole, *h*, leading through the bottom of the bed, there being to such hole a stop-cock, *i*, such being to enable steam or water to be discharged from the bed, as circumstances may require.

The veneering-press above described is for use in veneering flat-surface articles that can be placed between the bed and platen, or upon the bed on removal of the platen from over it, the platen being used to hold pressed down upon the bed a board to be veneered. Articles that cannot be placed between the bed and platen may, after the platen may have been removed from over the bed, be held down thereon by screw-clamps. In order to enable such clamps to be used, the rails N are to be turned down and the bars L depressed, so as to rest on the upper bars, *d*, of the frame.

A board or box having had applied to a flat surface of it glue and a veneer is to be placed, veneer downward, upon the top of the bed and forced in contact therewith by the platen and its depressing bars or screws, after which the cool-water cock is to be closed and the steam-cock opened, in order that steam may flow into and out of the pipes within the bed and be discharged against the top of the bed, so as to evenly heat it, after which any water in the bed is to be drawn off and cold water let in and discharged against the top, so as to cool it. On removing from the platen its depressing-bars and their screws the platen will be caused by the weight and tackles to rise away from the bed.

A press thus made has been found in practice to be highly efficient and useful for the purpose for which it is intended.

I do not claim a veneering-press constructed as represented in the British Patent No. 2,362

for 1861—viz., with a hollow bed having partitions in it lengthwise of it and parallel to each other, and at one end means of introducing steam or cold water, and at the other a means of discharging the water—although such constitutes material parts of the veneering-press hereinbefore described, as I have in the partitioned bed, and opening out of the induction-pipe, a series of foraminous pipes arranged between the partitions, such having been found in practice to be necessary for the equal distribution of the steam or cool water between the partitions, in order to keep even the temperature of the bed, which cannot be accomplished to so good advantage, if at all, without such pipes. Furthermore, by having the two pipes F F provided with stop-cocks G G and to lead into the pipe E to communicate by the branch pipe D with the series of pipes C, I am enabled by closing one and opening the other of the cocks G to discharge either steam or water into the series of pipes C. I would also further remark that there is to the frame of the press described in the British patent nothing like the rails N of my press or nothing to perform the functions thereof, nor are there

to the bed two sets of tackles and weights, nor anything like the bar M, as arranged with the bars L. Therefore,

What I claim as my invention is as follows: 30

1. The combination of the series of foraminous pipes C and their induction-pipes D E F F, provided with stop-cocks G G, as described, with the bed B, having the partitions b, and with the platen H, its two sets of cross-bars, I L, and screws K, all being arranged and adapted in manner and to operate substantially as set forth. 35

2. The combination of the "turn-down" rails N N, adapted to the frame A, as described, with such frame, the hollow bed B and the platen H, and their cross-bars I L, and the screws K thereof, all being substantially as set forth. 40

3. The combination of the bar M with the bars L and with the hollow bed, and the platen provided with the bars I and their depressing-screws, as set forth. 45

RICHARD GOFF.

Witnesses:

JOHN S. KEATING,
JAMES W. MANN.