

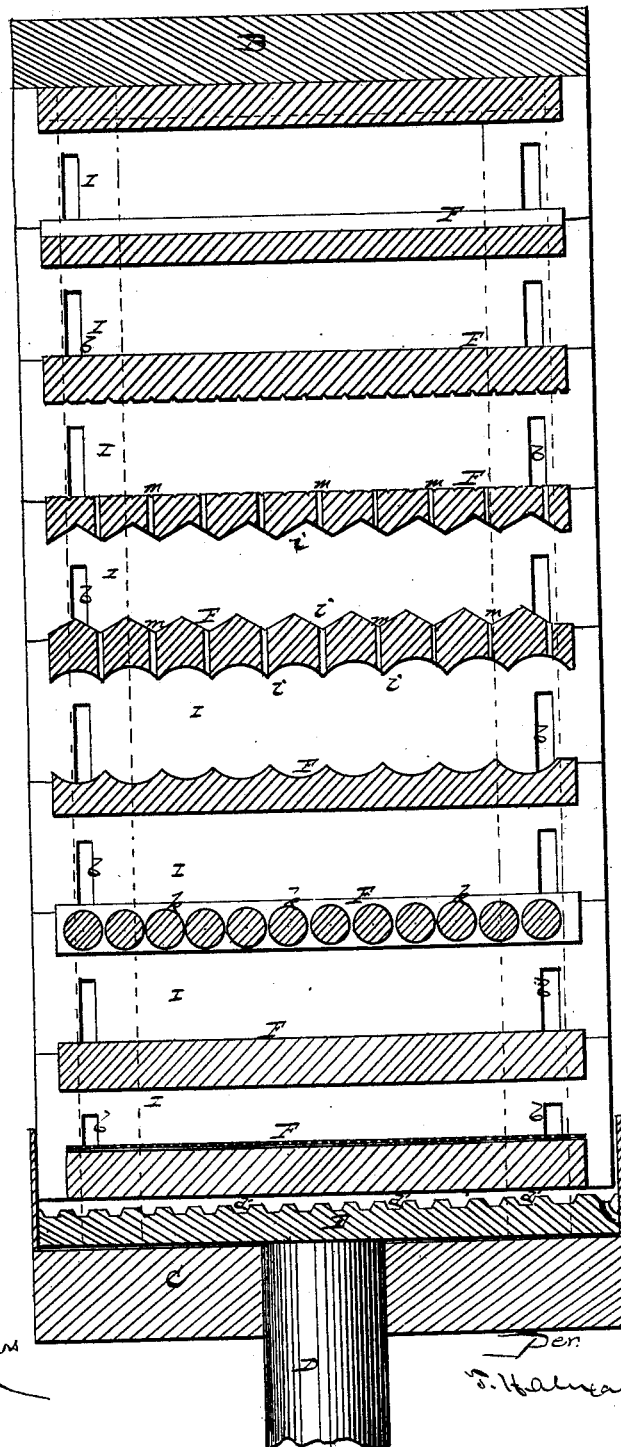
J. C. TIFFANY.

Press for Extracting Oils from Seeds, &c.,

No. 214,207.

Patented April 8, 1879.

Fig. 1.



Witnesses:

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Fig. 3.

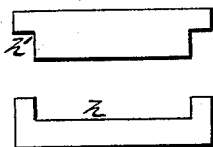


Fig. 2.

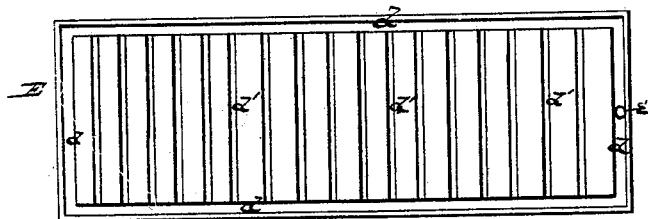


Fig. 4.

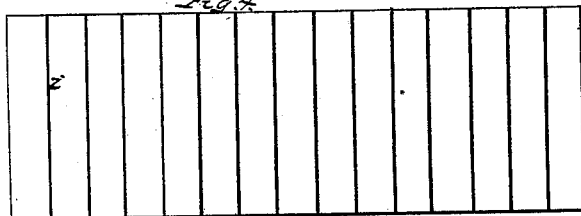


Fig. 5.

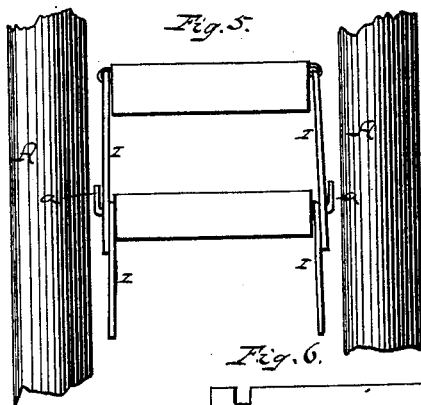
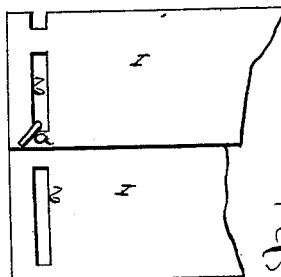


Fig. 6.



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UNITED STATES PATENT OFFICE.

JOHN C. TIFFANY, OF XENIA, OHIO.

IMPROVEMENT IN PRESSES FOR EXTRACTING OILS FROM SEEDS, &c.

Specification forming part of Letters Patent No. **214,207**, dated April 8, 1879; application filed October 1, 1878.

To all whom it may concern:

Be it known that I, JOHN C. TIFFANY, of Xenia, State of Ohio, have invented certain new and useful Improvements in Presses; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The nature of my invention consists in the construction and arrangement of a press for the purpose of extracting oils, liquids, or fatty matters from seeds, fruits, or fatty substances, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a central vertical section. Fig. 2 is a face view of the pan E; and Figs. 3, 4, 5, and 6 are detail views of my invention.

The stand or frame-work of my press is composed of four or more upright posts, A, attached to a top plate or cap, B, and also to a bottom plate, C. This bottom plate has a cylinder, D, in it, and in this is a ram to work, which is to be raised out of the cylinder by hydraulic or screw power. On top of the ram rests a receiving-box, E, and between this and the top plate, B, is a series of division-plates, F F, the upper one of which is fastened to the under side of the top plate. These divisions are connected by means of side plates I I, which are fastened to the edges of the respective divisions, and each set of side plates supports the next division below by means of projecting pins or screws *a a* from the division passing through vertical slots *b* in the side plates.

The receiving-box E is constructed with grooves *d* in the upper surface along the edges, and transverse grooves *d'* across the face. It has also at one end an outlet, *e*, to allow the substance received from the matter being pressed to pass away from the press.

The sidings or side plates I are used to space the divisions, and also as conveyers of the pressed matter or fluid, which runs down these sidings, and is then caught in the receiving-box E below. They may be plain or grooved, as desired.

Instead of the pins working in slots in the sidings, there may be grooved ways secured to the sidings for the heads of the pins or screws to work in.

The divisions F may be constructed in various ways, according to the material to be pressed, and according as it may be deemed most advantageous for the purpose. For instance, one division may be formed like a shallow pan, as shown at *h*, and the corresponding division cut away at the edges, as shown at *h'*, to fit in the pan; or the adjoining faces of corresponding divisions may be corrugated, as shown at *i*; or they may be composed of rods *k*, of any shape, placed alongside of one another and together in any suitable manner.

The divisions are also provided with holes *m*, to allow the liquid oils or fatty matter to pass from the substance being pressed; and the divisions may be covered with cocoa, hair, or fiber matting.

The material to be pressed is first molded in cloths and then placed between the divisions, when the power is applied and the material between all the divisions pressed at one time.

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

In a press for pressing oils and fatty matter, a series of divisions, F F, with sidings or side plates, I, connected to them, and constructed substantially in the manner and for the purpose herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JOHN C. TIFFANY.

Witnesses:

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DAVID B. TIFFANY.