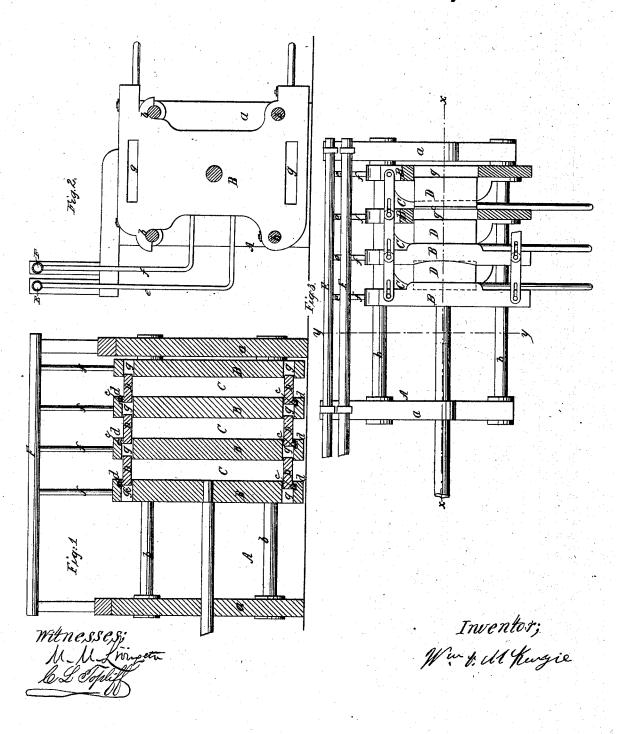
Mm I.M. Frenzie, Dil Press.

Nº47,441.

Patented Apr. 25, 1865.



UNITED STATES PATENT OFFICE.

WILLIAM. V. McKENZIE, OF JERSEY CITY, NEW JERSEY.

IMPROVEMENT IN OIL-PRESSES.

Specification forming part of Letters Patent No. 47,441, dated April 25, 1865.

To all whom it may concern:

Be it known that I, WM. V. MCKENZIE, of Jersey City, in the county of Hudson and State of New Jersey, have invented a new and Improved Oil Press; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a longitudinal vertical section of this invention, the line x x, Fig. 3, indicating the plane of section. Fig. 2 is a transverse vertical section of the same taken in the plane indicated by the line y y, Fig. 3. Fig. 3 is a plan or top view of the same, partly in section.

Similar letters of reference indicate corre-

sponding parts.

This invention consists in the use of doors sliding in grooves in the adjoining movable sides of the press boxes, said grooves being arranged in such a manner that they retain the slides firmly in position and compel them to close tight when the press is filled, and at the same time they do not interfere with the sliding motion of sides of the press boxes.

The invention consists also in the application of a steam-supply, and of an exhaust-pipe extending over the entire length of the press, and communicating with each press-box by small pipes in such a manner that said small pipes will have sufficient spring to allow the sides of the press-boxes being moved the requisite distance, and all complicated joints in these pixes are the avoided.

in these pipes can be avoided.

A represents a press composed of a frame, B, with rigid end pieces, a, which are connected by longitudinal bars b. The bars form the guides for the sides B of the press boxes C, and said sides are so arranged that they can be moved apart and forced together by a hydraulic press or any other suitable means.

The top and bottom of each press-box is formed by a slide, D, which is provided with a lip, c, as shown in Fig. 1, and which is guided in grooves d, cut in the sides B, the proper places. By the means of the lips c the slides D are compelled to follow the motion of the sides B, and when these sides close up, the sides drop into mortises g, as

shown in Fig. 3, where the sides are shown apart and the slides ready to enter said mortises. It will be noticed that the slides D are never allowed to rise from the inner edges of their guide-grooves, and, if the box is filled with lard or other material, nothing is allowed to get between the slide and said inner edges of the grooves which would prevent the same from closing tight, and at the same time the slide is constantly in place, it is not allowed to drop out, it is made in a simple and easy manner, and it is more durable than any other cover which has come under my notice.

The press-boxes are supplied with steam from a pipe, E, which extends throughout the entire length of the press, and the exhaust-steam is carried off through a pipe, F. These pipes communicate with the several press-boxes by means of branch pipes e f, and they are situated at such a height above the press, and said branch pipes are made so thin that the same retain spring enough to allow of moving the sides B without rendering it necessary to construct them with a complicated joint.

The press can thus be supplied with steam in a simple and cheap manner, the pipes or joint are not liable to get out of order, and the operation of pressing is materially

facilitated.

I claim as new and desire to secure by Letters Patent—

1. The combination of the separate slides D D and mortises g g with the sides B of the press boxes, when constructed and arranged to operate as herein specified.

2. The lips c, in combination with the slides D, grooves d, and sides B of the press-boxes, constructed and operating substantially as

and for the purpose described.

3. Though I do not claim broadly the use of steam for heating a press, I claim the pipes E F with branch pipes e f, arranged in combination with the movable sides of a press, substantially as specified, so that said branch pipes retain sufficient spring to allow of the motion of the sides of the pressboxes.

WM. V. McKENZIE.

Witnesses:

M. M. LIVINGSTON,

C. L. TOPLIFF.