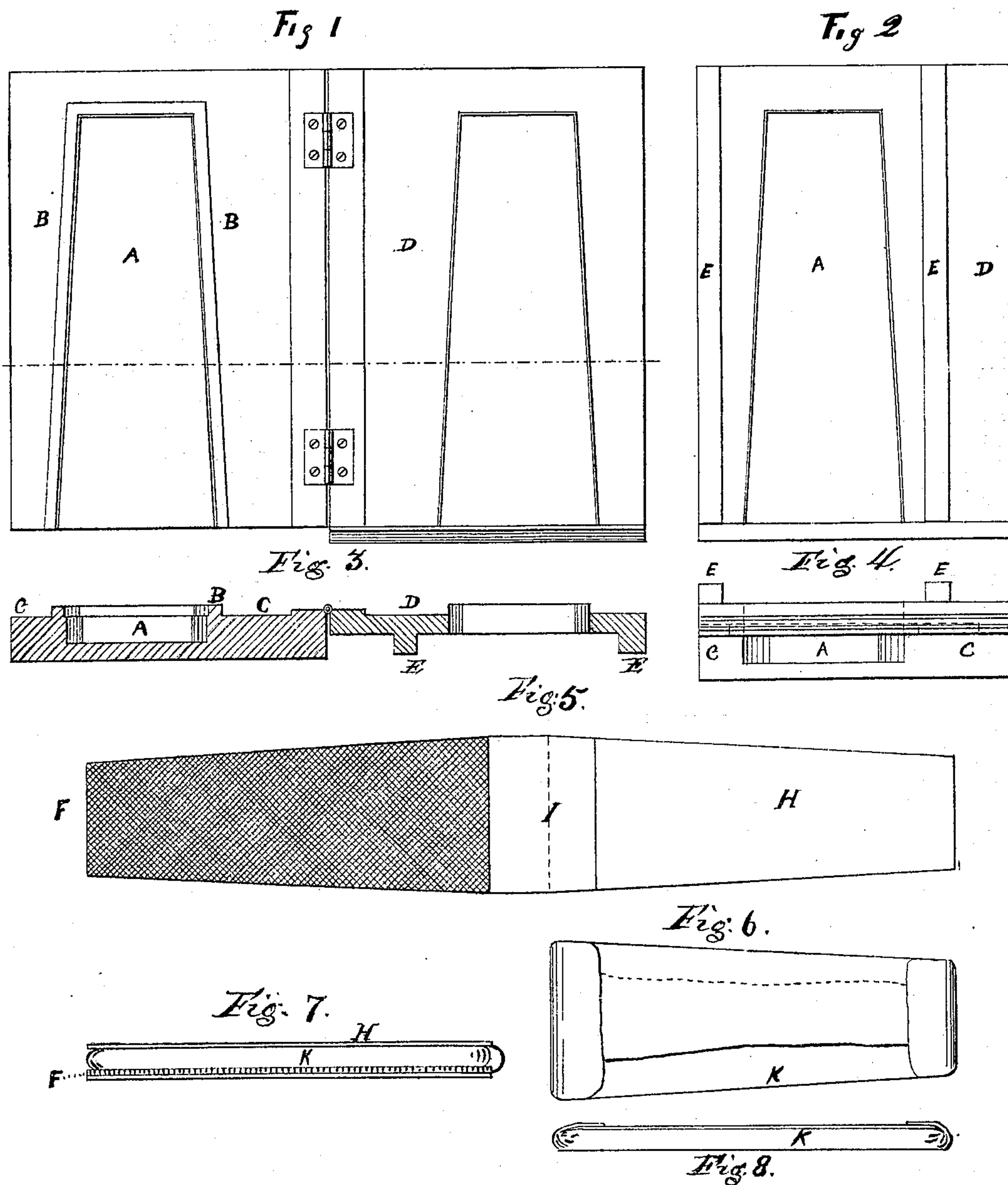


W. M. FORCE.  
Improvement in Cases and Wrappings in Oil-Presses.  
No. 129,021. Patented July 16, 1872.



Wm & Goodwin  
C B Blake

William M. Force  
His Attorney  
John D. Lane Jr



# UNITED STATES PATENT OFFICE.

WILLIAM M. FORCE, OF NEWARK, NEW JERSEY.

## IMPROVEMENT IN CASES AND WRAPPINGS IN OIL-PRESSES.

Specification forming part of Letters Patent No. 129,021, dated July 16, 1872.

*To all whom it may concern:*

Be it known that I, WILLIAM M. FORCE, of the city of Newark, county of Essex, in the State of New Jersey, have invented new and useful improvements in wrappers and case for the pulp or meal of oleaginous seeds for the operation of pressing in hydraulic presses known as "the box-press;" and I do hereby declare that the following specification, taken in connection with the drawing furnished, is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same.

My invention consists in certain devices, together with the use of ordinary sail-cloth or duck for wrappers, for securing and inclosing oleaginous seeds, or the pulp thereof, for the operation of pressing the oil therefrom, instead and in place of the more expensive worsted fabric now in use in the form of bags or sacks and the consequent difficulties in filling, stripping, and making the same.

Referring to the drawing, Figure 1 represents the case or device for assisting in forming the wrapper. Fig. 2 represents the top of Fig. 1; Fig. 3, end view or section of Fig. 1 through the center; Fig. 4, end view or section of Fig. 2 through the center. Fig. 6 represents the wrapper of sail-cloth or cotton duck folded, containing the ground pulp of seeds. Fig. 5 represents the "hair-mat" or elastic covering used generally in oil-mills. Fig. 7 shows the wrapper, Fig. 6, between the two parts of the hair-mat, Fig. 5; Fig. 8, edge view of the folded wrapper of sail-cloth or duck.

A, space or receptacle for forming and filling the wrapper; B, elevated edges, serving, with the assistance of the cover, as a vice or fastening to hold the edges of the wrapper while being filled with seed-pulp before being folded; C, the base, forming the box or receptacle; D, cover or rim, closing over the top of bed C; E, elevations forming a rim, serving as guides for a movable hopper to convey the seed-pulp to the receptacle A for delivery into the wrapper; F, a "hair-mat," lower section; H, upper section of "hair-mat;" I, hinge, connecting the two parts, "upper" and "lower;" K, wrapper.

I construct my case (see Figs. 1, 2, 3, and 4) of any hard wood, by way of preference, although iron may be used, or parts of both

wood and iron, connecting, for convenience, the top and base by hinges. The "hair-mat" F is constructed similar to those in general use, as will be seen in the drawing, and is used in connection with the form or receptacle A to close over the wrapper when filled and folded over the seed-pulp for a greater convenience of conveying the same to the press for the purpose of expressing the oil. The proportions should be in accordance with the space or receptacle A, in which it is to be used. The duck is cut in pieces suitable to fill the form or receptacle, and be folded after being filled with the seed-pulp. (See Fig. 6.)

To enable others skilled in the art to use my invention, I will explain.

I use my forms and wrappers generally in connection with the ordinary mulling-mill, when the pulp of oleaginous seeds is prepared for pressing, although the same may be used for pulp prepared otherwise.

The form may be secured to a table in connection with the sliding hopper which contains and delivers the pulp into the form or receptacle A, in quantities sufficient to fill the same. By sliding the hopper forward and then backward the surplus meal is removed, leaving the exact amount desired to fill the wrapper, by which means there is a perfect uniformity in the contents of each cake without weighing or measuring the quantity of pulp otherwise; the wrapper being previously laid over that part of the "hair-mat" represented in the drawing at F by cross-lines, which is placed in the form or receptacle A with the side and ends of the wrapper secured between the side elevations B and the rim or cover D, the nature of the pulp being such that the pressure of the sliding hopper is sufficient to leave it in proper form for folding the wrapper after raising the cover or rim D, the folding being done by hand, leaving it in the form as shown in Figs. 6, 7, and 8 of the drawing; Fig. 7 showing the "hair-mat" inclosing the wrapper K in condition for pressing, which is done in the usual manner.

By my invention I am enabled to graduate the weight of the pulp used and to avoid the forming of any thick or uneven parts in the pulp when pressed, giving better results in oil and the quality of the cake produced. Much time is saved in stripping the wrapper from



the cake that would be consumed in separating the cake from a bag or sack, which is evident to all persons skilled in such work.

My invention enables me not only to use open wrappers, but to use common cotton sailcloth or duck advantageously for such purposes; it also enables me to deliver the desired quantity of pulp with the greatest ease, accuracy, and rapidity into the wrapper with perfect uniformity of thickness. After being removed from the press I am enabled to gain much time in removing wrappers from the

pressed cake, and gain much in economy of labor and material.

Having thus described my invention, I claim—

The case or form A, constructed as described, with elevations B B, the hinged rim or top D, and guides E E, in combination with the wrapper K, as and for the purposes set forth.

WM. M. FORCE. [L. S.]

Witnesses:

JOHN DANE, Jr.,  
C. M. HOUGH.