H. OLSEN.

OIL-SQUEEZER.

No. 174,971. Patented March 21, 1876.

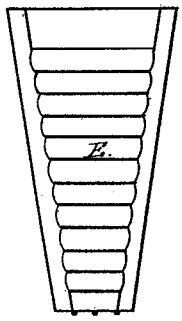



Fig. 1.

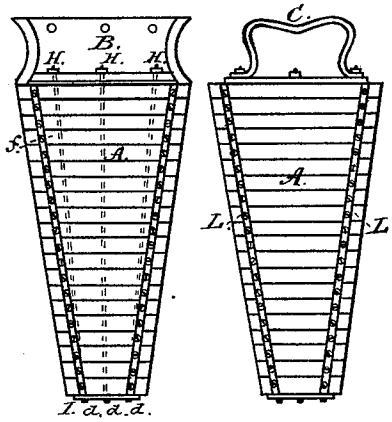
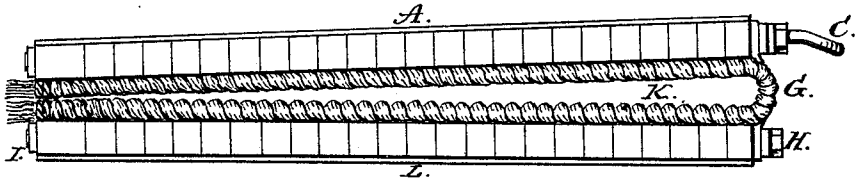



Fig. 2.

Fig. 3.




Witnesses:

Arthur Hitchings Chambers.

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# UNITED STATES PATENT OFFICE.

HANS OLSEN, OF MONTREAL, CANADA, ASSIGNOR TO EDWARD RAWLINGS, OF SAME PLACE.

## IMPROVEMENT IN OIL-SQUEEZERS.

Specification forming part of Letters Patent No. **174,971**, dated March 21, 1876; application filed February 17, 1876.

*To all whom it may concern:*

Be it known that I, HANS OLSEN, of the city of Montreal, county of Hochelega, Province of Quebec, Dominion of Canada, have invented certain new and useful Improvements in Oil-Squeezers, of which I hereby declare the following specification to be a full, clear, and exact description, and will enable any one skilled in the art to make and construct the same.

My improvement is designed to take the place of the horse-hair bag, which is, I believe, the only article now in use for the purpose of extracting the oil from seeds. I claim various advantages for my squeezer over that of the ordinary horse-hair bag. First, I can produce twenty per cent. more oil from the same amount of seed. Secondly, the seed, after the oil is extracted, is left in a better shape for marketable purposes. Thirdly, it is less likely to get out of order, and is therefore more durable. Fourthly, the pressure is more direct, and there is no chance to expand at the sides, therefore much time is saved. Fifthly, it is much easier to handle; and, sixthly, it is cheaper.

I will now proceed to describe its construction, which is simple. It is composed of wood, iron, and zinc or tin. My object is to construct two flat pressing-surfaces, which shall tightly incase the seed to be operated upon between them, and at the same time yield sufficient to allow the oil thereby extracted to pass out without the pressure injuring the sides of the squeezer, which represents the pressing-surfaces.

To better describe my invention, I will have recourse to the drawing appended, which I desire to be taken as and form a part of this specification.

Figure 1 represents the face of one of the sides of the squeezers; Fig. 2, the exterior of the two sides, and Fig. 3 a side view of the squeezer.

A represents strips of wood, which should be sufficiently hard and tenacious to stand the heavy pressure brought to bear upon it without splitting. They should be so cut that when laid side by side they will present a surface which shall taper toward one end. I desire to have it understood, however, that I do not confine myself to any particular shape or form; but the one I shall describe I find to be the best for all practical purposes. Through these strips of wood I run three iron rods, *f*, which at the smaller or tapering end of the squeezer are secured by rivets *d*, or by hammering their ends until they are held in place. A small strip of metal, I, is placed at both ends of the squeezer's side pieces. The rods *f*, at the widest end, are secured by means of rivet-bolt nuts H, which, when well tightened, secure all the strips in a compact form, as shown in Fig. 2. Strips of leather are nailed on each side near the ends of the blocks, which also help to keep the strips A in place. These strips are represented at L, in Fig. 2. To the inner sides of the wooden strips A, when they are held securely by the rods *f*, are secured plates E, of corrugated zinc, tin, or any other suitable metal. This metal forms the inner or direct pressing-surface, and is secured to the wood by nailing at intervals. To each side of the squeezer's surfaces braided strips of horse-hair are attached, being secured by horse-hair thongs, which are pegged into the wood, being held the same as bristles in a brush. Any other suitable means may be employed. The object of this horse-hair braid is to keep the seed to be operated on in place between the pressing-surfaces of the squeezer, and being porous too, at the same time, allow the oil to pass out freely. The two sides of the squeezer, as represented in Fig. 2, are secured together by the leather hinge B. The end of the squeezer, where the hinge B is located, is provided with an iron or a metal handle, C, which renders the squeezer more easily handled.

Having thus described the construction of my squeezer, I will now proceed to describe its practical operation: The seed to be operated on is placed between the two sides A, provided with zinc or tin linings, care being taken that only sufficient is introduced to allow of the squeezer being closed when under pressure, so that the edges of the horse-hair braids shall be close to each other, or sufficiently so to prevent the seeds oozing out. The squeezer is then introduced under the

press, and, being subjected to pressure, the oil will flow freely from the sides K. After this operation, when the squeezer is removed from the press and opened, the seed will be found in a hard cake, which, if handled carefully, may be removed in this form, and will then be ready for marketable purposes.

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

An oil-squeezer, constructed with two sides, A A, hinge B, squeezing-surface of corrugated metal E, horse-hair braids G, rods *f*, strips L, metal strips I, and handle C, the whole arranged and constructed substantially as and for the purposes specified.

In testimony that I claim the foregoing as my own invention, I have hereunto signed my name in the presence of two witnesses.

HANS OLSEN.

Witnesses:

HENRY FRANCIS QUELCH,

UNO HILLMAN.