

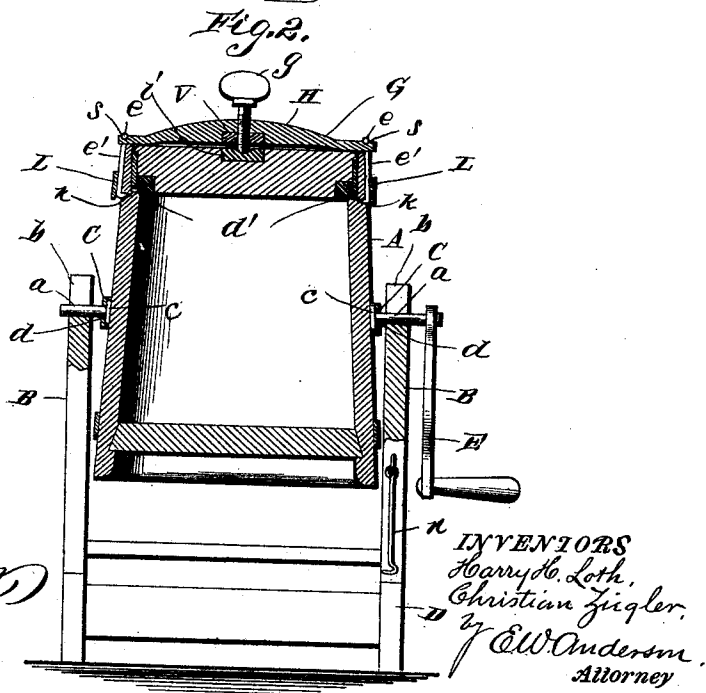
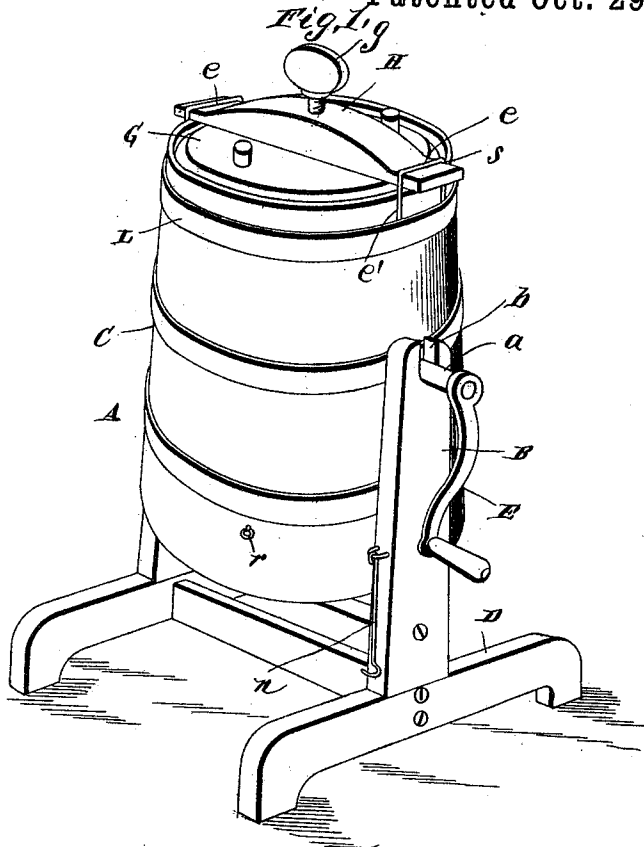
(No Model.)

H. H. LOTH & C. ZIEGLER.

CHURN.

No. 414,064.

Patented Oct. 29, 1889.



WITNESSES
C. B. Taylor
Phil. K. Hasi.

INVENTORS
Harry H. Loth,
Christian Ziegler,
By *E. W. Anderson,*
Attorney.

UNITED STATES PATENT OFFICE.

HARRY H. LOTH AND CHRISTIAN ZIEGLER, OF WAPAKONETA, OHIO.

CHURN.

SPECIFICATION forming part of Letters Patent No. 414,064, dated October 29, 1889.

Application filed May 29, 1889. Serial No. 312,489. (No model.)

To all whom it may concern:

Be it known that we, HARRY H. LOTH and CHRISTIAN ZIEGLER, citizens of the United State, and residents of Wapakoneta, in the county of Auglaize and State of Ohio, have invented certain new and useful Improvements in Churns; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a perspective view. Fig. 2 is a vertical section.

This invention relates to rotary churns; and it consists in the novel construction and combination of parts, as hereinafter described, and pointed out in the claim.

In the accompanying drawings, the letter A designates the churn-body suspended in a swinging manner on the vertical standards B, rising from a base D. *aa* designate metallic journals or trunnions projecting horizontally from the side of the churn A through the middle hoop C. The said journals have their bearings in the open slots *bb* in the upper part of the vertical standards B, and a crank-handle E is adapted to be keyed to the end of one of the journals *a*, to rotate the churn. These journals are provided with heads *c*, and are secured to the hoops C through perforations *d d*, diametrically opposite each other, one on each side of the churn. The headed portion *c* limits the passage of the journals through the hoop C, and when the latter is driven to its seat around the churn-body the flat inner surfaces of the heads *c* abut against the sides of the churn and are securely bound in position by the pressure of the hoop around the churn.

A lid G, which rests in an annular rabbeted seat *d'* around the mouth of the churn-body, is secured in position by means of a transverse fastening-button H, which is secured at each end by a metallic bail-form keeper *e* and by a set-screw *g*, which passes centrally

and vertically through the said button and through a threaded nut V, let into the same to engage a central metallic countersunk seat *i* in the lid. The keepers *ee* are situated one diametrically opposite the other, and are in the form of rectangular loops or bails having downward extensions or arms *e' e'*, bent at *k*, to enter perforations in the side of the churn. When the upper hoop L is driven to its seat around the churn, said keepers are securely bound in rigid position between said hoop and the sides of the churn, the bent ends *k* of the extensions being held to their engagement by the hoop and preventing any displacement of the keepers.

The fastening-button H is provided at each end with a lateral notch *s*, to engage an arm of the bail-form keeper *e*, through which its end projects to prevent horizontal slipping of the button when the latter is secured by the set-screw.

When the set-screw *g* is turned in its seat *i* on the lid, the button H rises and the notched ends are forced up under the bail-form keepers *ee*, and the lid is pressed firmly in its seat and held there by the screw.

A hook *n* is attached to one of the standards B and engages a staple *r*, near the bottom of the churn, to steady the latter when it is desired to hold the same without motion.

What we claim, and desire to secure by Letters Patent, is—

In a rotary churn, the churn-body having the perforated hoop C, located about midway of the length of the churn-body, and the journals *a*, having heads *c* and projecting through the perforations in said hoop, the heads *c*, resting between the churn-body and the hoop, whereby they are securely bound to the churn when the hoop is driven to its seat, substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

HARRY H. LOTH.
CHRISTIAN ZIEGLER.

Witnesses:

C. A. STUEVE,
R. B. ANDERSON.