(No Model.)

2 Sheets—Sheet 1.

A. TSCHUOR.

CHURN.

No. 387,190. Patented July 31, 1888.

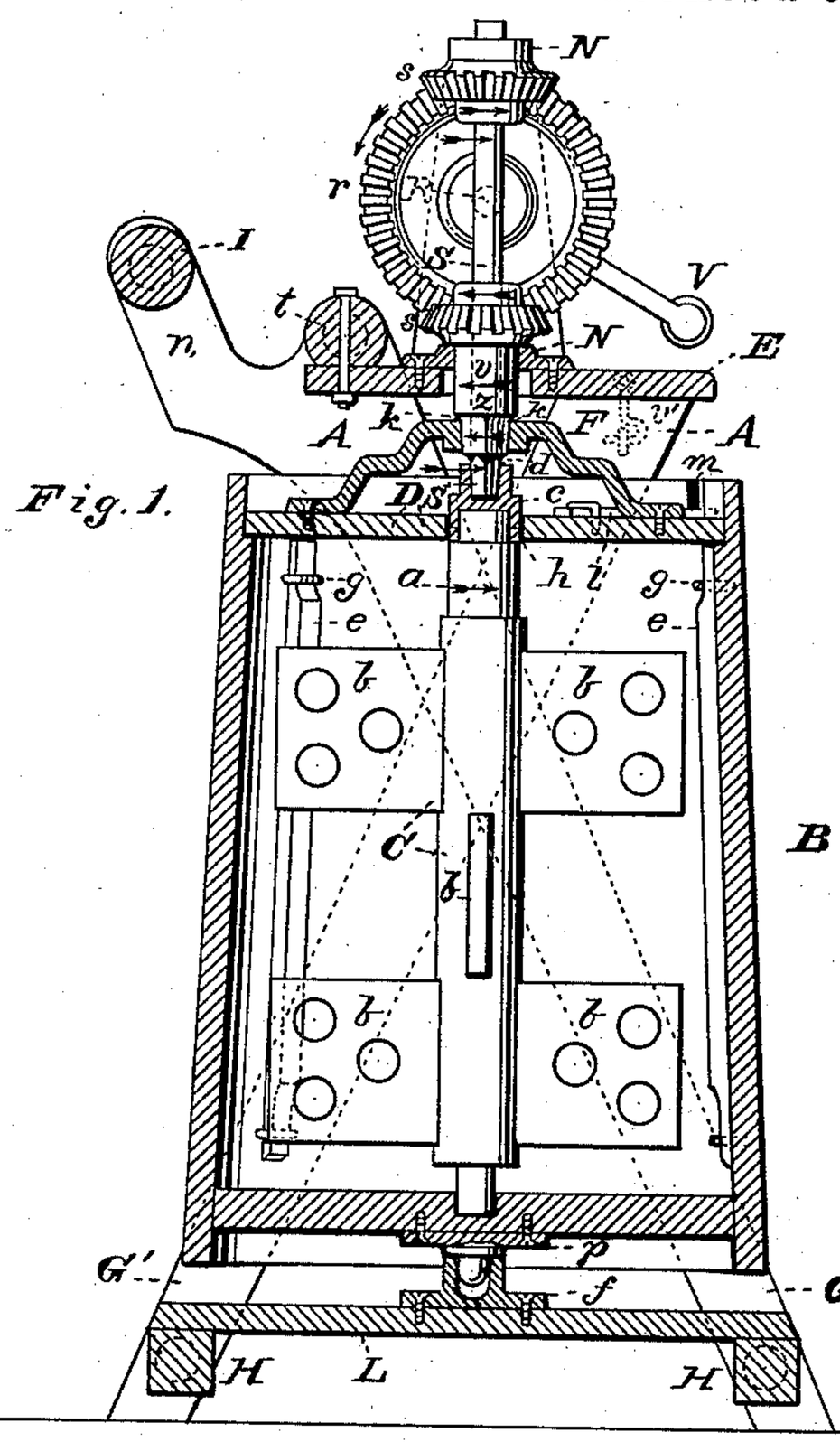

Fig. 1.

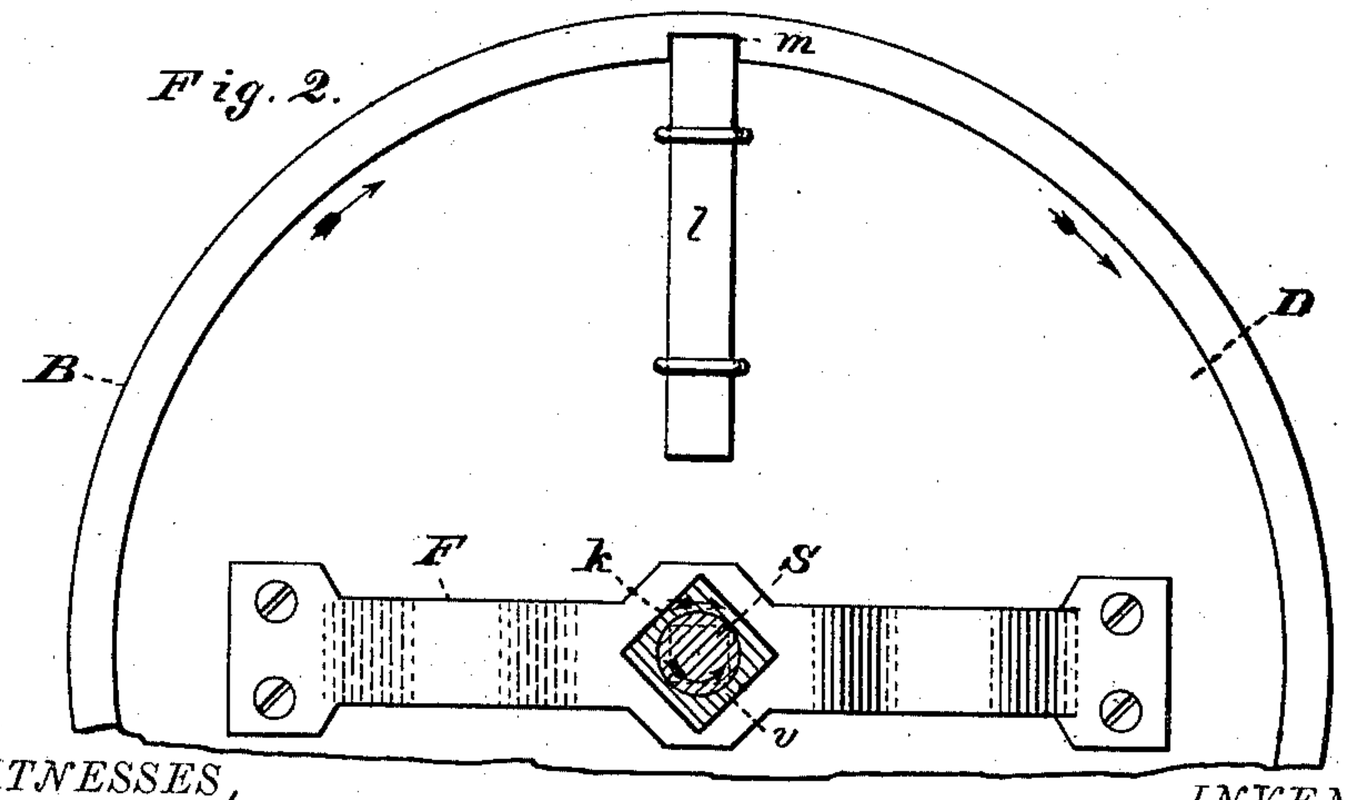

Fig. 2.

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INVENTOR.

Antoni Tschuor,

by E. W. Anderson,

his Attorney.

(No Model.) 2 Sheets—Sheet 2.

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CHURN.

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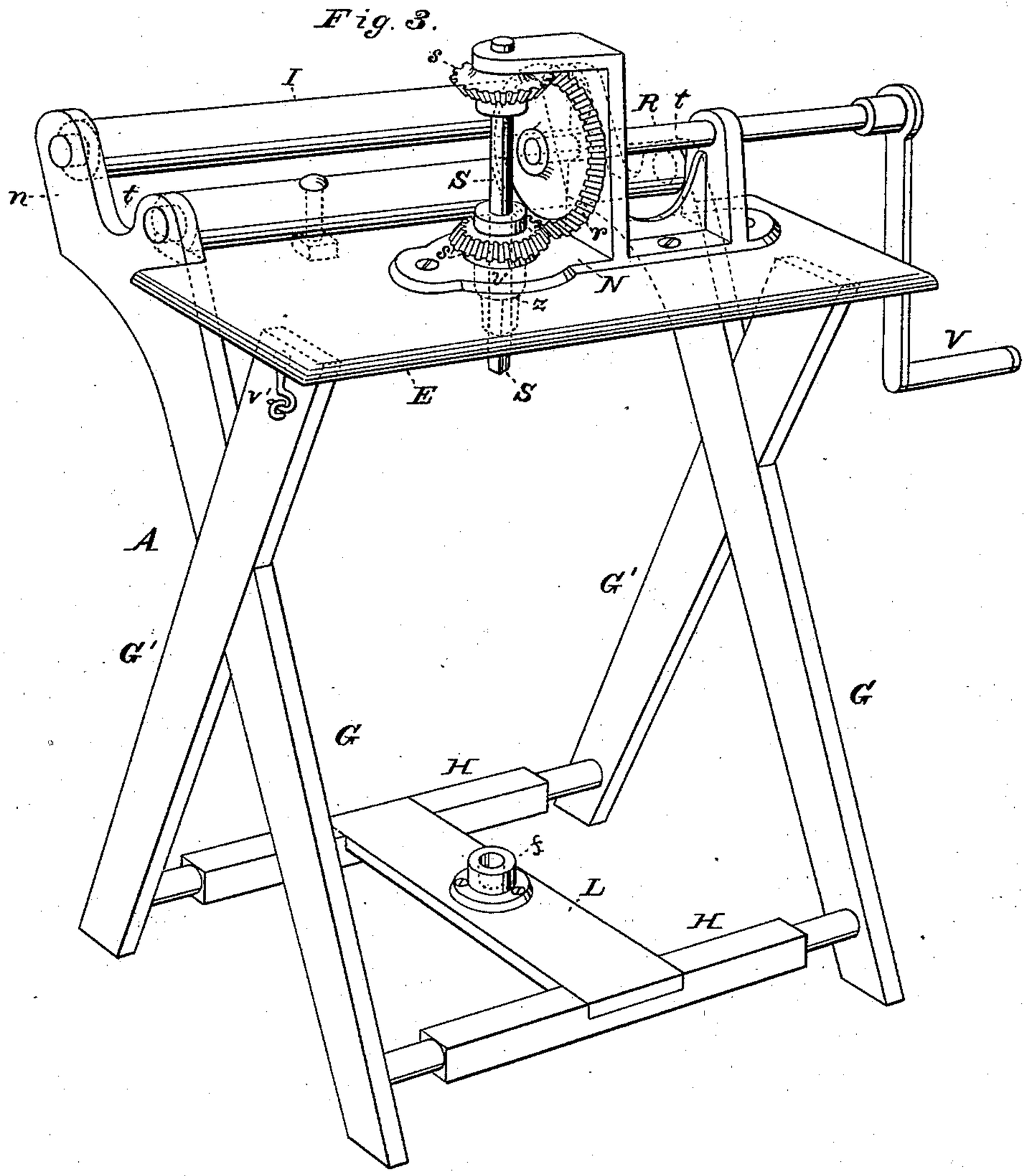
Fig. 3.



WITNESSES,
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C. R. Ferguson.

INVENTOR.
Antoni Tschuor.
by E. W. Anderson.
his Attorney.

UNITED STATES PATENT OFFICE.

ANTONI TSCHUOR, OF WAPAKONETA, OHIO.

CHURN.

SPECIFICATION forming part of Letters Patent No. 387,190, dated July 31, 1888.

Application filed May 26, 1888. Serial No. 275,183. (No model.)

To all whom it may concern:

Be it known that I, ANTONI TSCHUOR, a citizen of the United States, and a resident of Wapakoneta, in the county of Auglaize and State of Ohio, have invented certain new and useful Improvements in Churns; and I 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 vertical sectional view of a churn embodying my invention. Fig. 3 is a detail top view, parts being broken away; and Fig. 3 is a perspective view of the cross-bar frame and operating devices.

This invention has relation to churns; and it consists in the construction and novel combination of devices, as hereinafter set forth, and pointed out in the claims appended.

In this case I have deemed it essential to illustrate and describe the body and interior mechanism of a churn for which Letters Patent were granted me under date of July 19, 1887, and numbered 366,985. It is to be understood, however, that the present invention relates more particularly to the supporting-frame and its connections, as shown in perspective in Fig. 3, and to the churn cover and body, as illustrated in Fig. 2.

In the accompanying drawings, the letter A designates the cross-bar frame, and B a rotary churn connected therewith; C, the dasher of said churn, and D the churn-cover. E is the top board of the frame.

The dasher consists of a wooden stem, *a*, having wings *b*, and provided at its upper end with a small metallic head, *c*, having a squared socket, *d*.

The inner wall of the churn is provided with several longitudinal strips, *e*, which are confined to said wall by staples *g*.

The churn-cover is provided with a central aperture, *h*, and with a metallic bowed handle, F, which extends transversely over said aperture, and is provided at its middle point with a squared opening, *k*. The cover is also provided with a locking-bar, *l*, adapted to engage a gain in the margin of the churn. (Indicated at *m*.) The frame consists of the strong cross-bars G G′, at each side halved together in X form, and connected by the transverse bottom rounds, H H, and the top round or handle, I, which is secured to offset extensions *n* of the bars G, which rise above the level of the cover and in rear thereof. The rounds H H are connected by the base-bar L, which is provided with a socket-casting, *f*, adapted to receive the pintle of the base-casting *p*, which is secured to the bottom of the churn. The bars G are also provided with the bearings *t* for the journals of the top board, E, of the frame. The upper ends of the bars G′ at the front of the frame are beveled to form horizontal bearings for the top board, E, when the latter is down in operating position. When raised, the mechanism carried upon the top board bears against the handle I of the frame, which forms a support therefor. Hook-fastenings *v′* are provided to fasten the top board down in operative position. The top board, E, carries a cast frame, N, in which is journaled the shafts R S, the gear-wheels *r s*, and the sleeve *v*, having the gear S′. This sleeve extends through an opening in the board E, and has a shoulder, *z*, which, when the machine is in operative position, rests on the handle F of the churn-cover. Below this shoulder the sleeve has a squared projection around the shaft S, which engages the squared opening of the said handle. The shaft S, projecting below the handle, is provided with a squared end, which engages the socket *d* of the dasher. The cross-leg frame is designed especially for rotary churns of this character, and is so formed that a churn can be seated therein in central position, whereby its balance will be preserved in operating. The handle I, being grasped by the left hand of the operator, serves to support him and steady the frame while turning the shaft-handle V.

When the shaft-handle is turned, the gearing effects a revolution of the churn-body in one direction and of the dasher in the reverse direction. I am aware that it is not new to use gearing to turn a churn body and dasher in opposite directions, and that it is not new to support such churn and mechanism in a frame, and I do not therefore claim such devices, broadly.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. A churn-frame consisting of the cross-bars G G′, halved together, the cross-bar G having offsets, the rear transverse handle-round I, secured to said offsets, the top board, E, carrying gear mechanism and centrally perforated, the rounds H H, and the base-bar L, the ends of the bars G′ being beveled, substantially as specified.

2. The combination, with the cross-leg frame A, having the base-bar L, carrying the socket-casting *f*, the pivoted top board, E, and transverse handle-round I above the level of the top board, the cast frame N upon said board, and operating-gear carried by said frame, of a rotary churn having a marginal gain, a rotary dasher, and a churn-cover having a bowed handle, F, and locking-bar *l*, adapted to engage said gain, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

ANTONI TSCHUOR.

Witnesses:
C. A. STUEVE,
F. C. LAYTON.