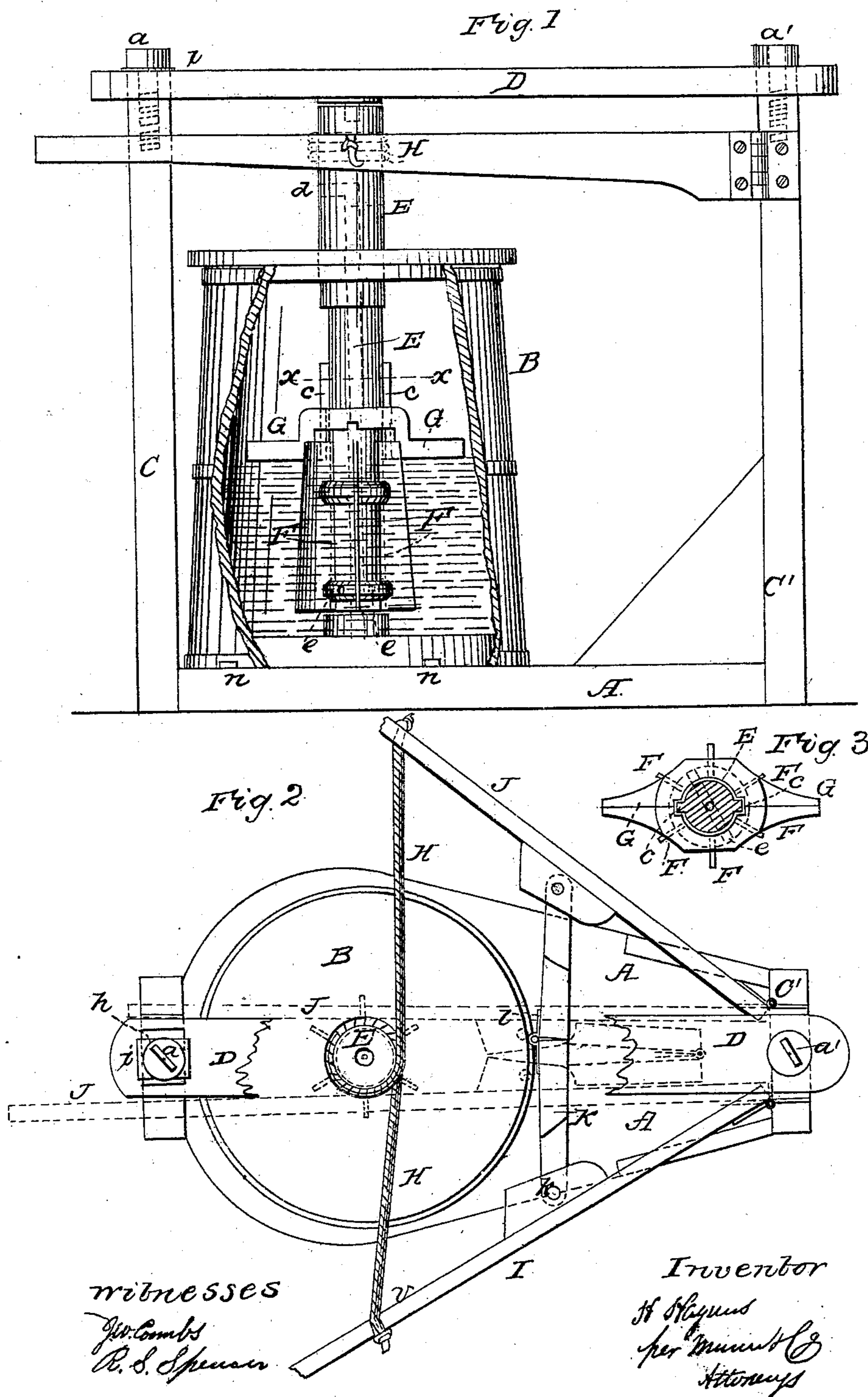


H. HAGAN.

Churn.

No. 32,868.

Patented July 23, 1861.



# UNITED STATES PATENT OFFICE.

H. HAGANS, OF BRANDONVILLE, VIRGINIA.

## IMPROVED CHURN.

Specification forming part of Letters Patent No. 32,868, dated July 23, 1861.

*To all whom it may concern:*

Be it known that I, H. HAGANS, of Brandonville, in the county of Preston and State of Virginia, have invented a new and useful Improvement in Churns; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side elevation showing a portion of the side of the churn-barrel removed, so as to expose the relative position of the internal parts. Fig. 2 is a plan or top view of the machine, with a portion of the cap D broken away. Fig. 3 is a transverse section of the staff E, as indicated by the red line *x*.

Similar letters of reference indicate corresponding parts in the three figures.

To enable those skilled in the art to make and use my invention, I will proceed to describe its construction and operation with reference to the drawings.

I construct a suitable frame, which consists of the bed-plate A, the uprights C and C', and the cap D. The churn or barrel B, which is of the ordinary construction, is placed on the bed-plate A between the several steady-pins *n*. The dasher-staff E is made hollow, with several openings *e* near the lower end and one *d* above the lid or cover of the churn. The said staff is provided with several radial wings F and two ribs or "feathers" *c*, all of which are rigidly fixed to it, and the butter-gatherer G, Figs. 1 and 3, which is fitted loosely on the dasher-staff, so as to be self-adjusting vertically, is made to rotate with the staff E by the said ribs *c*. The said gatherer G is made in two parts, being divided vertically, one half being placed each side of the staff, as seen in Fig. 3, and are connected together by screws. The staff E rests in a step *b*, attached

to the bottom of the churn, and the upper end is provided with a pivot which turns in the cap D. The mortise *h* (seen in Fig. 2) in the cap D is made sufficiently wide to admit the screw-head *a*, and a little longer than the binding-plate *i*, so that when the churn is to be removed or to be adjusted for use the screw *a* is turned back to relieve the binding-plate *i*, which may then be turned so as to register with the mortise *h*, when that end of the cap D may be lifted off and swung around out of the way by turning on the screw *a'*, or vice versa. The hand-lever I is hinged to one side of the upright C', as seen in Figs. 1 and 2, and the counter-bar J is hinged to the other side, as seen in Fig. 2, and they are connected together by the folding strainer-braces K, which are hinged to them at *k*, and are hinged together at *l*, as shown in Fig. 2, in such a manner as to allow the lever I and counter-bar J to be folded, as shown by the red lines, thereby rendering the apparatus much more portable. The cord H is attached to the counter-bar J and is wound three times around the staff E, and the other end is placed in the notch *v* of the lever I, with the knot outside.

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

1. The arrangement of the self-adjusting rotary butter-gatherer G and ribs *c* with the dasher-rod E and wings F, in the manner and for the purpose herein shown and described.

2. The arrangement of the jointed vibratory braces K K, hinged side levers I J, and driving-cord H with each other and with the dasher-rod E and post C', in the manner and for the purpose herein shown and described.

H. HAGANS.

Witnesses:

WM. HAGANS,  
WM. MCKEE.