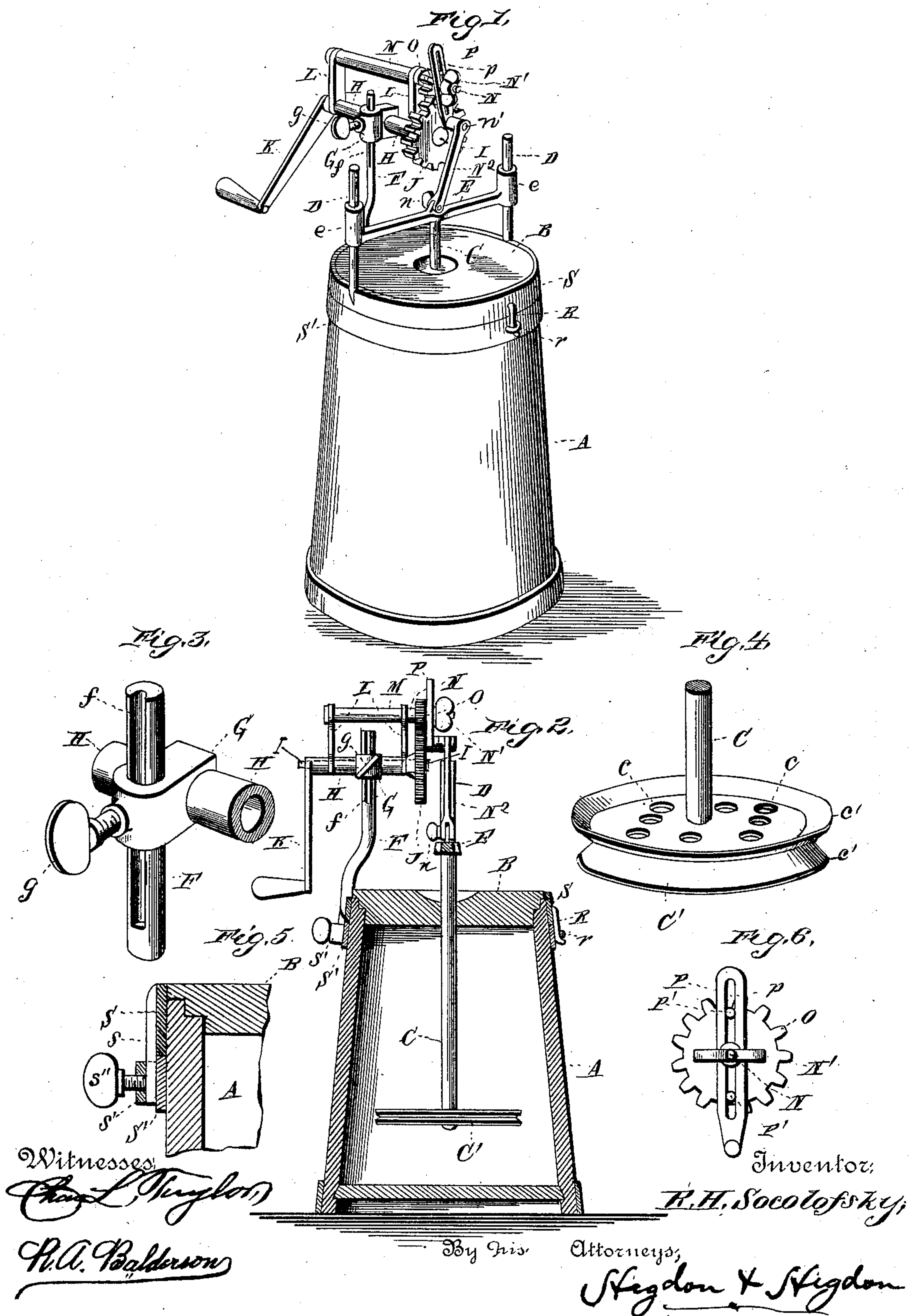


(No Model.)

R. H. SOCOLOFSKY.
CHURN.

No. 432,575.

Patented July 22, 1890.



UNITED STATES PATENT OFFICE.

REINHART H. SOCOLOFSKY, OF TAMPA, KANSAS.

CHURN.

SPECIFICATION forming part of Letters Patent No. 432,575, dated July 22, 1890.

Application filed December 2, 1889. Serial No. 332,303. (No model.)

To all whom it may concern:

Be it known that I, REINHART H. SOCOLOFSKY, of Tampa, Marion county, Kansas, have invented certain new and useful Improvements in Churns, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in churns; and it consists in the novel construction and arrangement of its different parts, hereinafter set forth and described.

In the drawings, which illustrate the manner of carrying out my invention, Figure 1 is a perspective view embodying the improvements of my device. Fig. 2 is a central vertical section of the same. Fig. 3 is a detail in perspective of a part of the supporting-rod F, showing the method of securing main sleeve H in position. Fig. 4 is a detail in perspective of the dasher C'. Fig. 5 is a broken-off sectional view showing the manner in which the mechanism for operating my churn is held in position, and Fig. 6 is a detail view of the cog-wheel O and showing how it is secured in slotted support P by means of thumb-screw N.

Referring to the drawings by letter, A represents a churn of any suitable material and provided with a lid B, through which operates the dasher-rod C, said dasher-rod C being provided at its lower terminus with a metallic dasher C', the same being provided with perforations *e* and oblique diverging flanges *c'*.

D D are upright arms or guides secured to the hoop S, on which operates the vertically-moving sash E, said sash E having sleeves *c*, which operate on said upright arms or guides D D.

F is the upright support, which is soldered or otherwise rigidly secured to hoop S. This upright F forms a support or carriage for the mechanism used in operating my device, the same being held in position by set-screw *g*. Said set-screw *g*, operating in groove *f*, keeps the mechanism in position.

G is a guide-coupling, which operates on upright support F.

H is a sleeve, which passes through and is supported by said coupling.

I is a shaft, which passes through and works in said sleeve, the said shaft I being provided with a gear-wheel J.

K is a crank or handle secured on revolving shaft I in a suitable manner, by which my device is operated.

L are upright supports secured on sleeve H, and in which is secured and supported shaft M, which is provided with a small gear-wheel O.

N is the boxing or hub of gear-wheel O, and, together with said gear-wheel, is held in position by set-screw M'.

N'' is a pitman-rod secured at its lower end to the vertically-moving sash E by suitable bolt *n*, and to slotted guide P by a similar bolt *n'*. Guide P is provided with a slot *p*, by which the device can be so arranged as to make a long or short stroke of the dasher-rod C.

P' are lugs cast on the small gear-wheel O, which fit in slot *p*, thus holding said gear-wheel O rigid.

R is a lug rigidly secured to the upper hoop S, and made with a bent end, which fits in the staple *r'*, which is firmly secured in the lower hoop S'.

s is a projecting lug firmly soldered on the upper hoop S, and extends downward through the journal *s'*, which forms a part of the lower hoop S'. This serves to hold the mechanism firmly on the churn.

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

The combination, with a churn, substantially as hereinbefore described, with the vertically-moving sash E, of a pitman attached to the same, said pitman being suitably secured to slotted bar P, adjustably fastened to shaft M and regulated by a set-screw, said shaft M being supported by uprights L L, resting on and encircling sleeve H, the shaft M having a small-gear-wheel O, which meshes with gear-wheel J, attached to shaft I, working in sleeve H, and to which is secured a crank or handle to operate the whole, said sleeve being encircled by coupling G, and a supporting-rod F, on which said coupling works, the said rod F being secured to the churn, substantially as described.

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

REINHART H. SOCOLOFSKY.

Witnesses:

S. H. GRIMES,

DAVID D. SOCOLOFSKY.