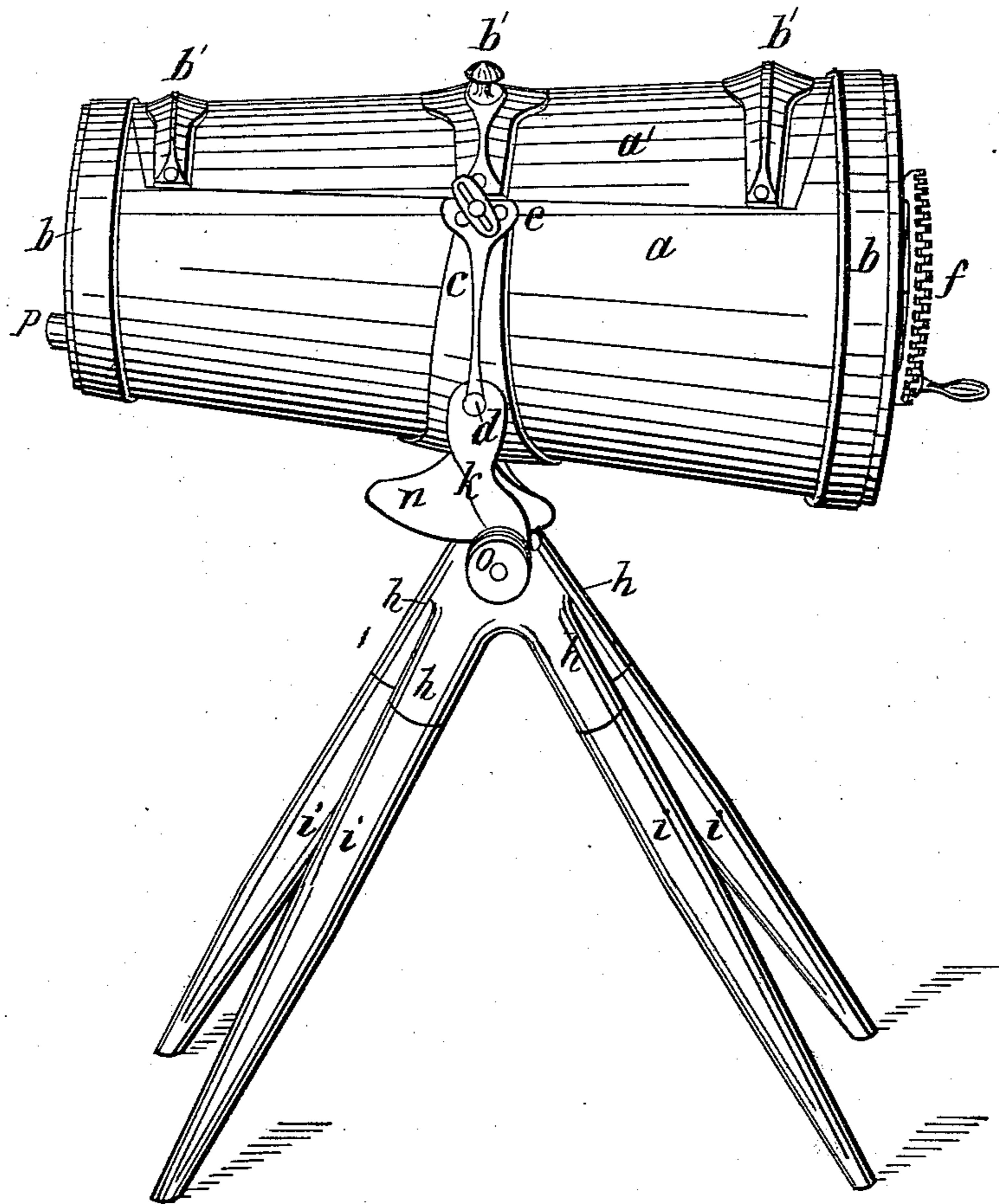


A. WESTCOTT.

Churn,

No. 84,784.

Patented Dec. 8, 1868.



Witnesses:

J. M. Nash

J. A. Baren

Inventor:

A. Westcott



AMOS WESTCOTT, OF SYRACUSE, NEW YORK.

Letters Patent No. 84,784, dated December 8, 1868.

IMPROVEMENT IN CHURNS.

The Schedule referred to in these Letters Patent and making part of the same.

Be it known that I, AMOS WESTCOTT, of Syracuse, in the county of Onondaga, and State of New York, have invented certain new and useful Improvements in the Boxes or Exterior Cases of Rotary-Dash or other Churns; and I do hereby declare and ascertain my said invention as follows, referring to the accompanying figure in illustration, which represents a side elevation of the churn.

Heretofore the boxes of churns with rotary dashers, or churns of like character, where the dasher was inserted in the side thereof, requiring a large opening for that purpose, were very expensive, and not reliable, owing to the swelling of the interior, by the wetting thereof, and shrinking, by which the box is warped, caused to leak, and rendered unfit for use in a short time.

My improvement is to obviate these objections and difficulties, and produce a cheap, durable, and substantial box or case at a reasonable cost, much less than those in use heretofore.

The construction is as follows:

I form the churn of staves, heads, and hoops, of a conical form, as seen in the drawing, *a*, barrel-shaped, or of other figure that admits of hooping.

These staves are bound at each end by hoops, *b b*, and on the upper side the staves are cut out nearly up to the heads, so as to form a large opening nearly the whole length of the interior.

The ends of the staves are cut off slanting, so as to make a flaring seat for the cover, which is formed of the staves cut out, the sides being flared radially, so as to form a perfect seat all around, upon which the cover *a'* rests.

The staves of the cover are held securely in place in the proper curve by means of metal segments, *b' b' b'*, and, to secure the staves of the body of the churn between the end hoops, I employ a segment-hoop, *c*, of sufficient rigidity, (to counteract the tendency to warp, before named,) which securely binds and holds the staves in place.

On each side of this segment-hoop *c*, I form trunnions or axes, *d*, by which the churn-body is suspended

on a stand, hereafter named, so that either end can be depressed at will.

The cover is held down by a button, *e*, or other device found convenient.

The dash is driven by gearing, *f*, as seen in the drawing, or otherwise.

The stand is formed of a casting of metal, with sockets, *h*, into which legs *i* fit, to support the churn at the proper elevation; and from this casting two standards, *k*, project upward, in a curved line, high enough to have bearings formed on their upper ends, to support the trunnions, *d*, aforesaid.

From the under side of the segment-hoop *c* there is a flat plate, *n*, extending down between the standards *k* in a space sufficient for it to move in as the churn is turned on its trunnions, *d*, the lower edge of said plate being a curve, of which the trunnions *d* are the centre.

A set-screw, *o*, holds the churn at any relative angle to the stand, by clamping-plate *n*, after the churn has been moved into the position desired.

The churn-box or case, so constructed as to have a large and extended opening into the interior, and held by segmental hoops or bands, to prevent the warping or distortion of the staves, is a cheap and durable structure, valuable for the purposes before named, and for working butter, as well as for many other purposes.

The buttermilk or other liquid can be drawn off by a faucet, *p*, in the end.

Having thus fully described my improved churn-box or case,

What I claim therein as new, and for which I desire to secure Letters Patent, is—

1. The combination and arrangement of the segment-hoop *c*, socket *h h*, with its projecting arms *k k*, and the vessel for the reception of the material to be operated upon, substantially as shown and described.

2. The combination of the segment-hoop *c* and segment *b'*, substantially as shown and described.

Witnesses:

J. J. GREENOUGH,
S. M. NASH.

AMOS WESTCOTT.