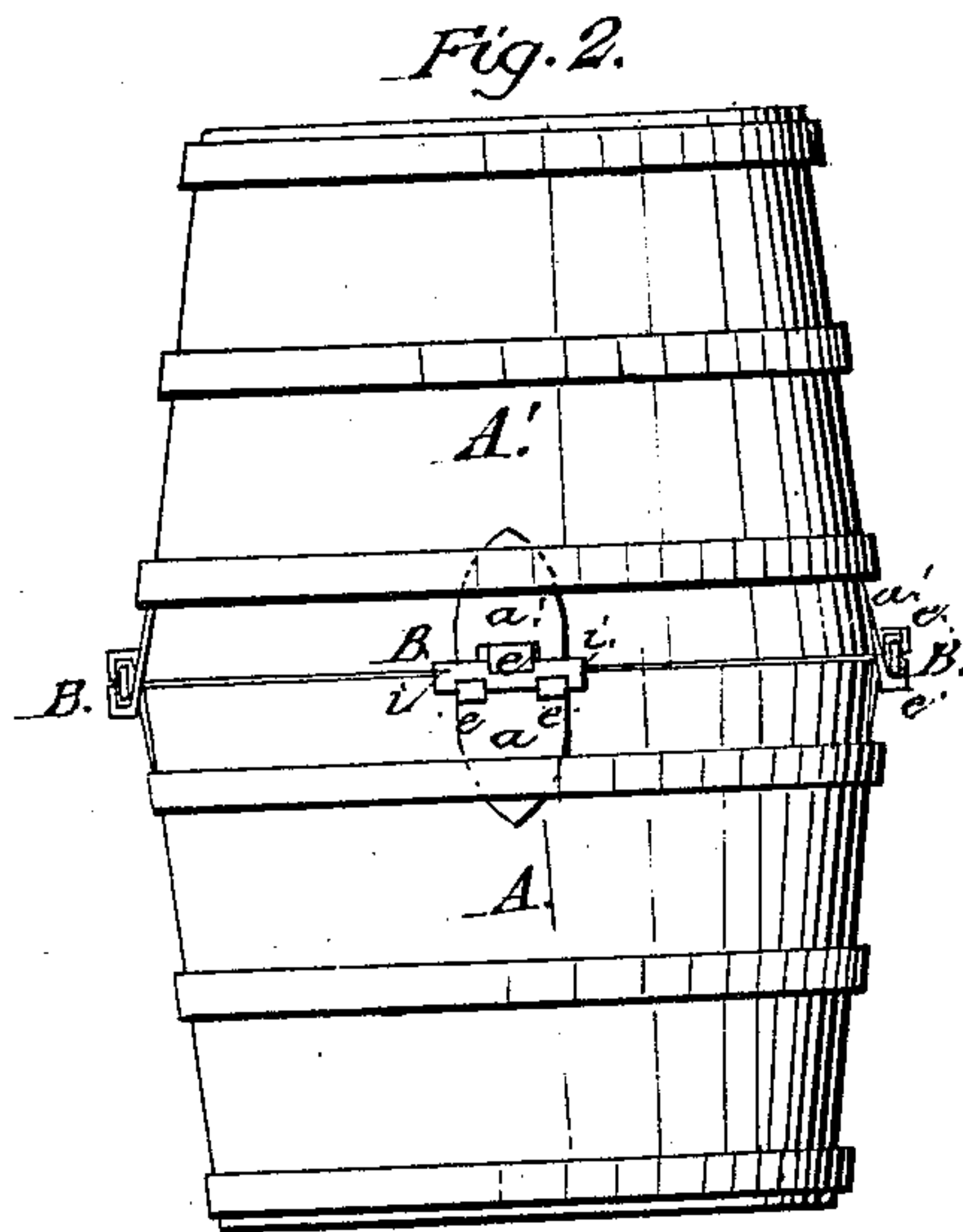
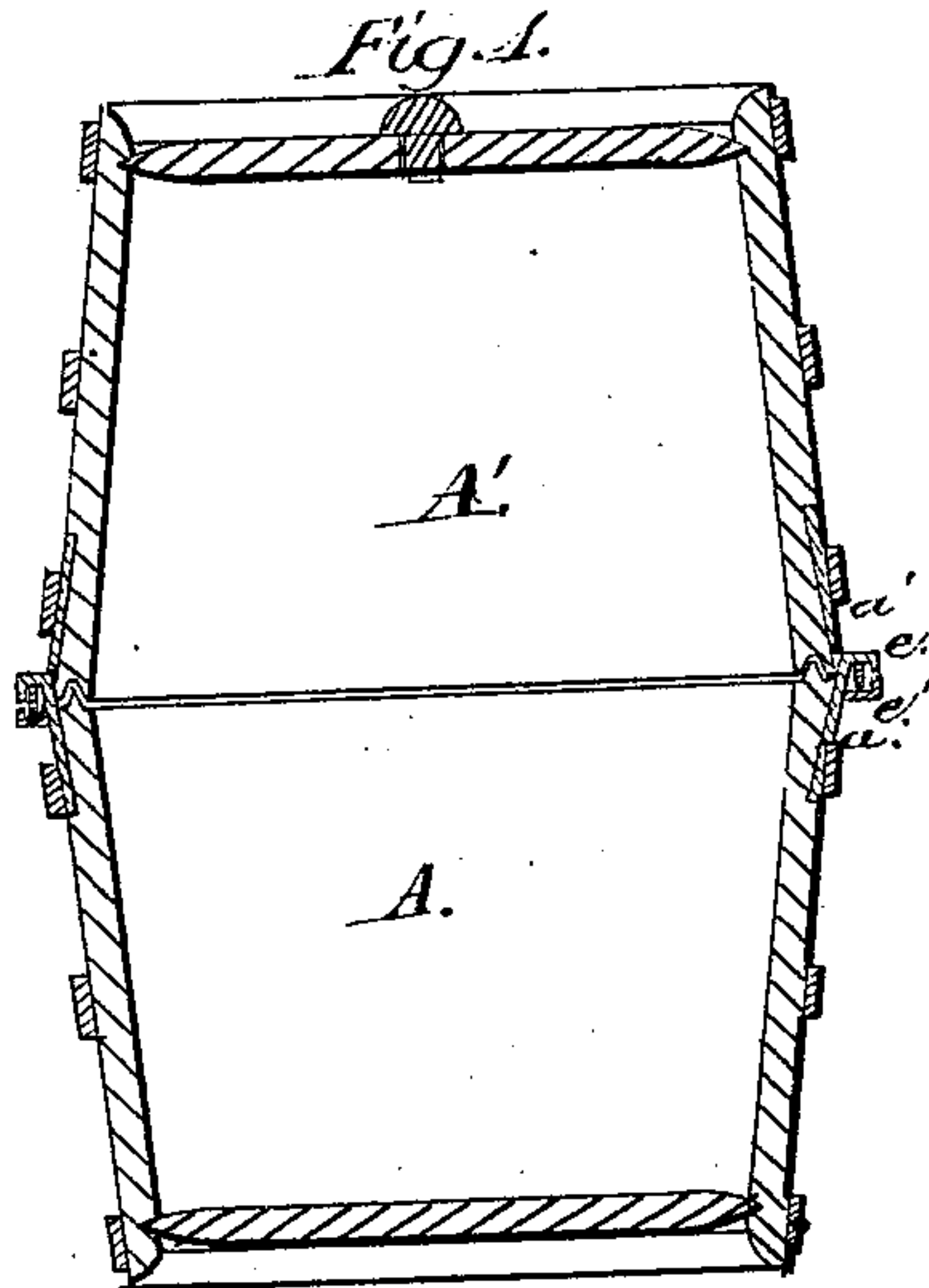


J. M. Hale,

Butler Tub

No. 90,584.

Patented Nov. 9. 1869.



Witnesses:
Harry King
Leopold C. Overb

Inventor:
J. M. Hale
By Alexander Mason
attorney's

United States Patent Office.

J. M. HALE, OF GEORGIA PLAINS, VERMONT.

Letters Patent No. 96,584, dated November 9, 1869; antedated November 1, 1869.

IMPROVEMENT IN BUTTER-TUBS.

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

To all whom it may concern:

Be it known that I, J. M. HALE, of Georgia Plains, in the county of Franklin, and in the State of Vermont, have invented certain new and useful Improvements in Butter-Tubs; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in the construction and arrangement of a butter-tub, as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains, to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, which form a part of this specification, and in which—

Figure 1 is a vertical section, and

Figure 2, a side elevation.

My butter-tub consists, in fact, of two tubs, A and A', of the same shape, one inverted over the other, and securely fastened together, by means of the key-couplings B B, or their equivalents, so as to compress them together at their points of intersection.

There are several modes of rendering the joint between the sections air-tight, and I do not limit myself to any one in particular. The edges of the sections may be provided with a groove in each, which may be filled with packing of waxed cotton, so making the joint air-tight. Or one section may be furnished with a lip, and the other with a groove, in their intersecting circumferences, as shown in fig. 1, so as to match together closely when the keys are driven in their places.

The couplings B B consist of metallic plates *a a'*, placed on the sides of the two sections, A A'.

The plate *a* is provided with one hook, *e*, projecting beyond the edge of the tub, in the centre of the plate, while the plate *a'* has two similar hooks, *e' e'*, at such a distance apart that the hook *e* will fit in between them when the two sections are joined together.

A wedge-shaped key, *i*, is then inserted between

said hooks, which firmly secures the two sections together.

The advantages of constructing a butter-tub or firkin in sections are mainly for convenience of filling and examination. When they are filled with butter, and one placed over the other, it will act as a cover to the package and exclude the air.

The manner in which I propose to make my butter-tub is as follows:

After the tub is turned smooth inside and outside, the creasing-tool cuts a groove, or crease for the headings at the points, &c. The headings are then inserted and the hoops set. The tub is then divided while in the lathe.

Each tub is of the same size when set up, so that the sections in every pair set up are of the same size, and when coupled together form two firkins, of the same or different sizes. By this arrangement, considerable time is saved in setting up the work and finishing it off, and at the same time firkins of different sizes may be manufactured without any change in the different parts of the lathe.

This principle will work equally well in the manufacture of pails and tubs, enabling the workman to finish two articles of the same or different sizes in nearly the same time it ordinarily takes for one.

Having thus fully described my invention,

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

The couplings B, constructed as described, having hooks or key-seats *e*, and keys *i*, or their equivalents, for the purpose of locking the sections of a butter-tub together, in combination with the said sections, substantially in the manner and for the purpose set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this 24th day of December, 1868.

J. M. HALE.

Witnesses:

H. H. HALE,
H. G. EDSON.