

H. G. Porter,

Barrel.

No. 111,868.

Patented Feb. 14, 1871.

Fig. 1

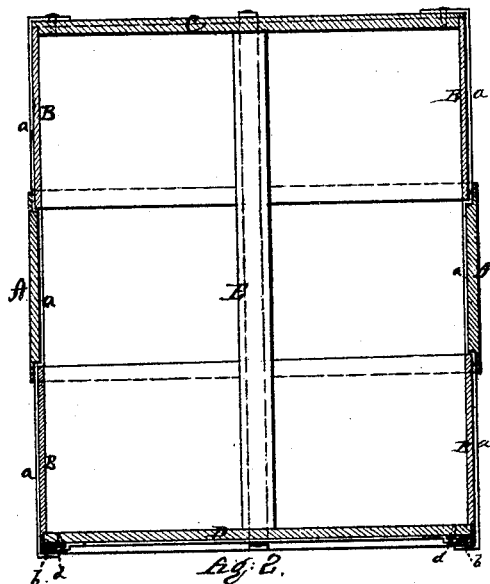
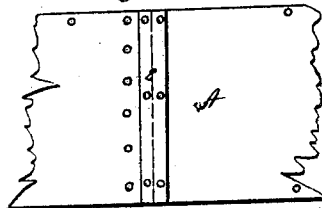


Fig. 2.



Witnesses

A. A. Yeaman
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Inventor

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HENRY G. PORTER, OF GRAND RAPIDS, MICHIGAN.

Letters Patent No. 111,868, dated February 14, 1871.

IMPROVEMENT IN BARRELS.

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, HENRY G. PORTER, of Grand Rapids, in the county of Kent and in the State of Michigan, have invented certain new and useful Improvements in Barrels; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a "barrel," 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 drawing, in which—

Figure 1 is a longitudinal vertical section of my barrel, and

Figure 2 is a side view of a portion of the middle band.

A represents the middle section or hoop of my barrel. The ends of this hoop are rabbeted on the inside so as to form a shoulder, upon which the end section or hoops B B may rest. The sections are then fastened together by nails or other suitable means, and strengthened by metal straps *a a*, which run on the inside of the middle section, and on the outside of the end sections, and the ends bent over and secured to the heads, as shown, or the sections may be held together by the straps *a a* alone, without nailing.

The upper head C is cut in such a manner that about one-third of its thickness will rest on the edge of the barrel, while the other two-thirds are inserted in the barrel the same as a common head.

The object of this is to make a head that can be taken out at pleasure without any injury to the barrel, by merely taking out the screws which fasten the ends of the metal straps *a a*.

The lower edge of the barrel is rabbeted, forming a place for the bottom or lower head D to rest on, thereby making it tighter, and if the head should shrink it would still be tight.

On the outside of the head D is a piece of wood, *b*, bent around and fastened to hold it in. This piece *b* is lined with a metallic band, *d*, with the edge turned up where it hits the head. This band may be made either plain or with the edge turned up, as shown, or

it may be used without the wooden band if so desired, or the metallic band may be used on the inside of the barrel to form a shoulder for the head.

I do not intend to use one kind of head in one end of the barrel and the other head in the other end, but to use the same kind in one barrel, both heads alike; for instance, the movable head C for carrying light stuff, and the rabbeted head D for heavier purposes, like flour, plaster, &c. This depends upon the strength required.

On the middle section A, where it is lapped, is nailed a metal strip, *e*, as shown in fig. 2. The outer end of this section is very thin where it is nailed, and stands up a little, rendering it liable to be torn up.

The strip *e* is nailed over this end with about one-half to lap over the end, while the rest comes onto the thick part of the section, thus preventing it from becoming torn up. The end sections B B of the barrel may also be provided with such strips if desired.

A stick, *E*, runs from head to head in the middle of the barrel, which stick may be tacked in or run in after the barrel is filled, thereby keeping the barrel to its full length when it shrinks and swells, and keeping the metal strips *a a* always tight. This allows the end sections to draw in or out of the middle or rabbeted section, as it may be exposed to wet or dry, allowing also the barrel to be made of green or unseasoned timber.

Having thus fully described my invention,

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

1. A sectional barrel, having the middle section or hoop rabbeted to form shoulders for the end sections to rest upon; and fastened together by means of metallic strips running lengthwise of the barrel over the end sections and under the middle section, substantially as herein set forth.

2. A sectional barrel, A B, having its end rabbeted to form a shoulder for the head D to rest upon, and said head confined by means of a metal band, *d*, with or without the wooden band *b*, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 22d day of June, 1870.

HENRY G. PORTER.

Witnesses:

CHARLES T. SAXTON,
EDWARD TAGGART.