

W. L. TETER.
Bolting-Reels.

No. 217,303.

Patented July 8, 1879.

Fig. 1

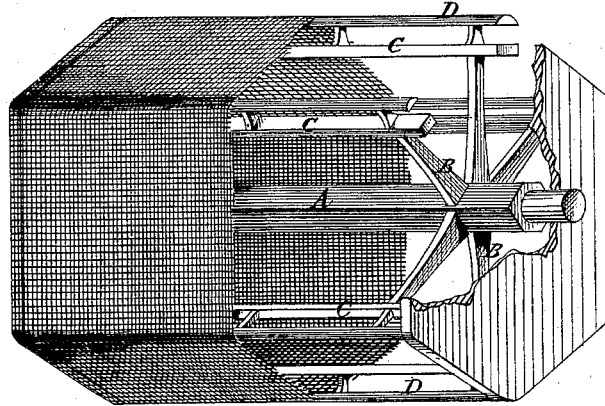


Fig. 2

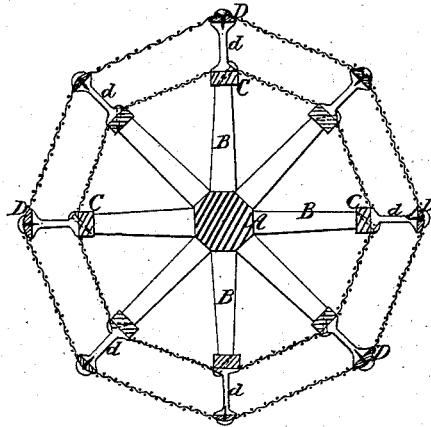
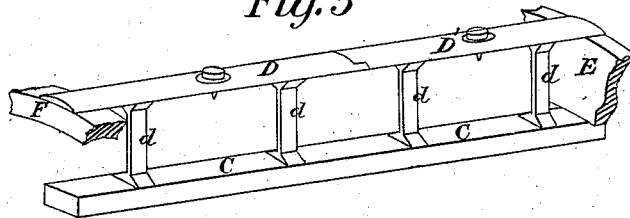


Fig. 3



Witnesses:

Elmer Grovell
Seward Beall

Inventor:

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UNITED STATES PATENT OFFICE.

WILLIAM L. TETER, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN BOLTING-REELS.

Specification forming part of Letters Patent No. **217,303**, dated July 8, 1879; application filed November 26, 1878.

To all whom it may concern:

Be it known that I, WILLIAM L. TETER, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and Improved Rib for Flour-Bolting Reels, of which the following is a specification.

My invention relates to that class of bolting-reels which employ a wooden framing and iron or other metallic ribs upon which the bolting-cloth rests. The ribs, being of iron, may be made quite light and thin, so that the meal may slide freely over them without being carried up and tossed from one section to the other of the bolt, and will also aid greatly to prevent vermin from burrowing between the rib and the cloth, as the iron is too hard for them to form their cells and too cold for their natural temperature.

The object of my invention is to provide a metallic rib that may be attached to the wooden ribs and framing of a bolting-reel without changing the structure of the framing or wooden portion of the reel, and that may be readily applied to reels already in operation without removing them from the bolting-chest.

The object of the invention, furthermore, is to enable me to readily convert a single-cloth to a double-cloth reel.

The improvement consists in making the ribs in sections, provided with standards that may be screwed directly to the wooden ribs of the reel, to hold the iron or supplemental rib a sufficient distance from the wooden ribs to allow the meal to freely pass between them.

In the accompanying drawings, Figure 1 is a perspective view of a single-cloth reel-bolt with my improvement attached; Fig. 2, a transverse vertical section of a bolt having a double cloth; and Fig. 3, a perspective view of a pair of my supplemental ribs attached to a wooden rib and the end pieces of the bolting-reel.

The shaft A, arms B, and ribs C are formed of wood, and may be of any of the usual forms or constructions.

The outer or supplemental rib is made of sections D D', preferably of cast or malleable

iron, galvanized to prevent rusting the bolting-cloth, which rests directly upon them. Each of the ribs D D' have standards *d d* cast upon them, usually about three inches in depth, and provided with screws or other means for attaching them directly to the ribs of the reel.

Each rib-section is preferably about two feet in length, and are made to overlap each other at their connecting ends, and, if desired, may be locked or bolted together at their ends to form an unbroken and continuous rib. The rib is cast quite thin, with knife-edges, so that no obstruction is offered to the meal as it passes over the cloth, and so that it will not be tossed from one section of the bolt to another, which prevents the full and effective working of the bolt, as a sliding or sifting action of the meal upon the cloth will give much better results than when the meal is tossed up or thrown upon it.

The cloth is tacked to the head-piece E and rim-piece F at the ends of the bolt, and is secured to the center of each rib-section by pins, preferably provided with soft-leather washers between the heads of the pins and the cloth. A suitable hole is cast in the middle of each rib to receive the pin.

With this arrangement a double-cloth bolting-reel may be easily formed, or a single-cloth reel may be readily converted into a double-cloth reel. The inner cloth may be slightly coarser than the outer cloth, and will serve to carry off the bulk of the chaff, while the finer speck may be removed by the outer cloth.

By means of the sectional ribs herein described the outer cloth, &c., may be readily removed and the inner cloth reached to repair it or clear it of obstructions. A reel may thus be easily repaired or clad with iron ribs without tearing away the bolting-chest or removing the reel.

It is well known that bugs or vermin will not harbor upon iron or other cold metallic surfaces; and as the metal ribs are galvanized, the cloth resting upon them is protected against rust, rot, or destruction by vermin; and as the metal ribs are made quite narrow,

they will take up but little of the cloth surface, and a larger bolting-area may thus be obtained.

I claim as my invention and desire to secure by Letters Patent—

A metallic sectional rib for bolting-reels, provided with standards cast upon them for

attaching to and for holding them a suitable distance from the wooden framing of the reel, substantially as described.

WILLIAM L. TETER.

Witnesses:

WM. H. ROWE,
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