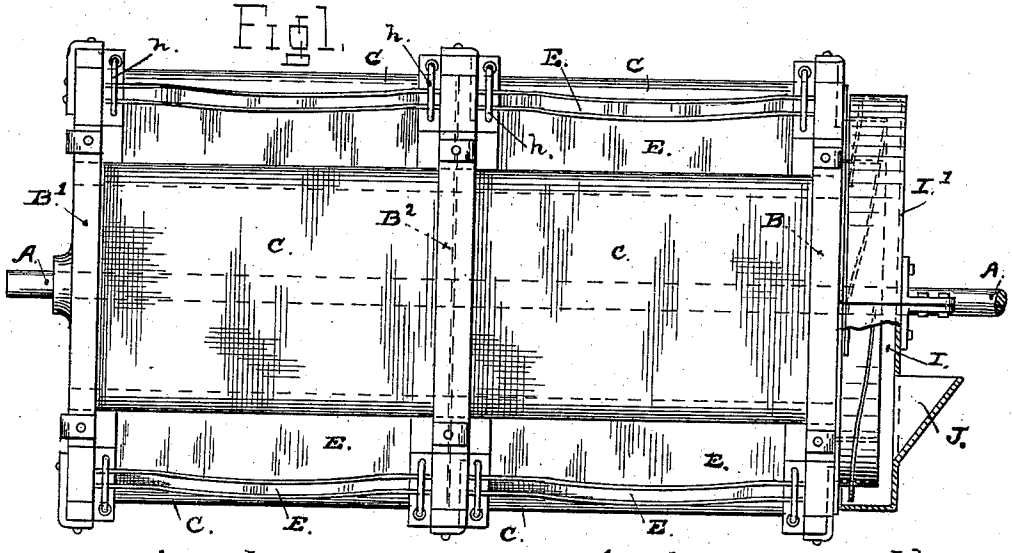
(No Model.)

A. J. TERRY.

BOLTING REEL.

No. 312,672. Patented Feb. 24, 1885.

Fig 1.



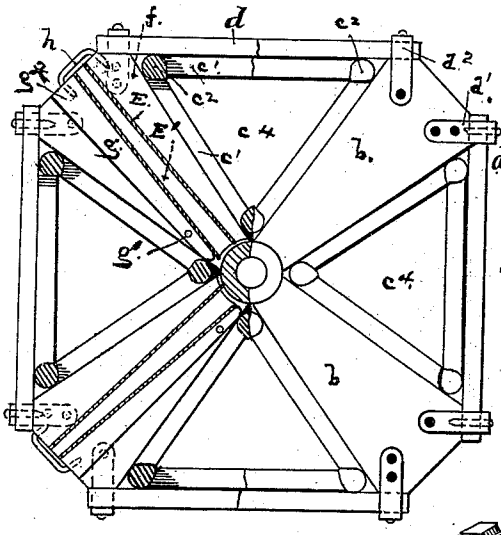


Fig 2

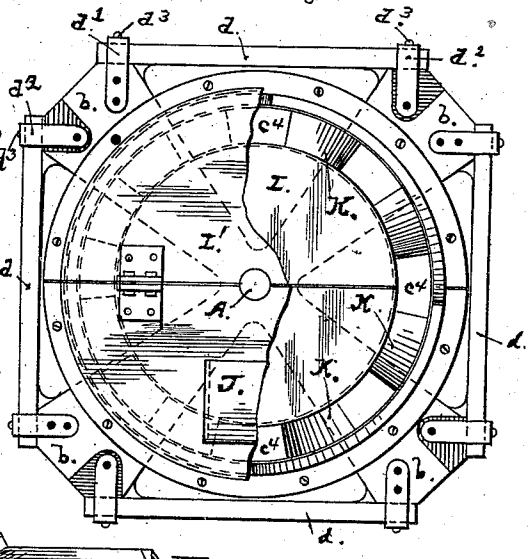


Fig 3

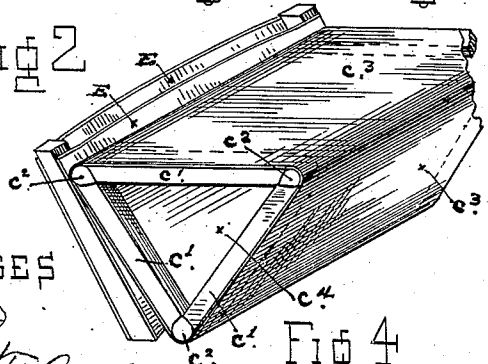


Fig 4

WITNESSES

Jno. L. Taggard

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INVENTOR

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By his Atty E. G. Siggers

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UNITED STATES PATENT OFFICE.

ANDREW J. TERRY, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR OF ONE-HALF TO EDWIN F. ADAMS, OF SAME PLACE.

BOLTING-REEL.

SPECIFICATION forming part of Letters Patent No. 312,672, dated February 24, 1885.

Application filed January 19, 1884. (No model.)

To all whom it may concern:

Be it known that I, ANDREW J. TERRY, a citizen of the United States, residing in the city and county of San Francisco, State of California, have made and invented certain new and useful Improvements in Bolting-Reels; and I do hereby declare that the following is a full, clear, and exact description of my said invention, and of the manner in which I proceed to construct and use the same, reference being had to the accompanying drawings.

My invention relates to bolting-reels; and it consists in certain novel features of construction hereinafter more fully set forth, and pointed out in the claims.

In the drawings referred to, Figure 1 is a side view of my improved reel. Fig. 2 is an end view taken from the left-hand side of Fig. 1, one-half of the head being shown in section. Fig. 3 is a similar view taken from the opposite side, and showing that head in one-half section. Fig. 4 is a detail of one of the sections or compartments removed from the frame.

A represents the reel-shaft; B B′, the heads, and C C the sections, that, when placed and fixed within the heads, constitute the bolting-compartments, each one of which receives its charge of chop or meal independently of the others. These sections are constructed of a frame, c' c' c^2, over which the bolting-cloth c^3 is stretched, and the ends have openings c^4. In a reel of polygonal form these sections will have at least three sides or bolting-surfaces, of which one will form the outer or peripheral surface, while the others will stand at equal angle with it and come together at a point near the axis. Each side has about the same area of bolting-surface, and the sections are set at uniform distance around the axis, with a clear space between the adjacent sides of every two sections. The length of the sections is governed by the size of the reel desired. Two or more sections may be set in line to give the required length; or long sections may be employed to extend from one head to the other. With short sections, an intermediate head, B^2, will be fixed to the shaft between adjacent sections as a support.

To confine the sections in place, I employ clamp-bars d d and brackets d' d^2, secured to the end of each arm of the head, one bracket, d', being fixed, and the other one hinged to turn back clear of the end of the bar d, as a means of allowing it to be removed and replaced at pleasure. Pins or screws d^3 take through the brackets into the bar and hold it in place across the end of the section. This affords a means of taking out or placing any section without disturbing the others.

In the spaces between the sections are fixed loose flexible surfaces of cloth, such as oil-cloth, or other similar close but pliable fabric, having their end edges fixed to locking-strips E′, but their upper and lower edges unconfined. Their surfaces between the fixed edges have sufficient pliability and amount of play to allow them to strike against the adjacent bolting-surfaces presented toward them. The office of these loose flapping surfaces E is to beat against and fan the sides of the bolting-compartments, and there is one such "beater," as I have termed them, provided to each bolting-surface within the reel. Each pair of such beaters is fixed to locking-strips of wedge shape, and a means for securing them within the spaces between the sections is provided on the inner sides of the arms b b. This device consists of a fixed strip, f, a hinged clamping-strip, g, pivoted to the head at g', and a hasp or hook, h, to engage with the upper end, g^2. This construction is shown in Fig. 2. By removing the hasp h and moving back the clamping-strip g, the strips, with the beater-cloths fixed to them, can be taken out. Such a reel has therefore a number of compartments that are in their operation independent of one another.

As each section requires separate feed, it is obvious that the feed-head must be constructed and adapted to such purpose. This may be provided for by forming a common receiving-chamber, I, with a spout, J, through which the material is supplied from a hopper or an elevator, and then placing against the side of the head at each inlet-opening of the sections a spiral wing or plate, K, the inner edge of which is in line with the back edge of the inlet, while the outer edge projecting forward runs in close relation to the inside surface of the case I′. These spirals then form so many

scoops to take up and direct the matter within the chamber I into the inlet-openings of the sections as the head B revolves. The whole set of bolting-compartments in the one reel are thus supplied from the common chamber. This construction and manner of operating the head are set forth more fully and claimed in an application filed on the same day with this, and known as Serial No. 118,099.

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

1. The combination, with the reel-frame and separate bolting-compartments, of the beater-cloths E, applied to operate substantially as and for the purpose set forth.

2. The combination, with the bolting-frame and separate bolting-compartments, of the brackets d' d^2 and clamping-bars d, as and for the purpose set forth.

3. A bolting-reel having the separate bolting-compartments, and provisions for the independent feeding and discharging from each separately, the brackets d' d^2, and clamping-bars d, and the beater-cloths E, applied as herein set forth.

ANDREW J. TERRY. [L. S.]

Witnesses:
EDWARD E. OSBORN,
EDWIN F. ADAMS.