

(No Model.)

C. A. SMITH.

FLOUR BOLT.

No. 289,935.

Patented Dec. 11, 1883.

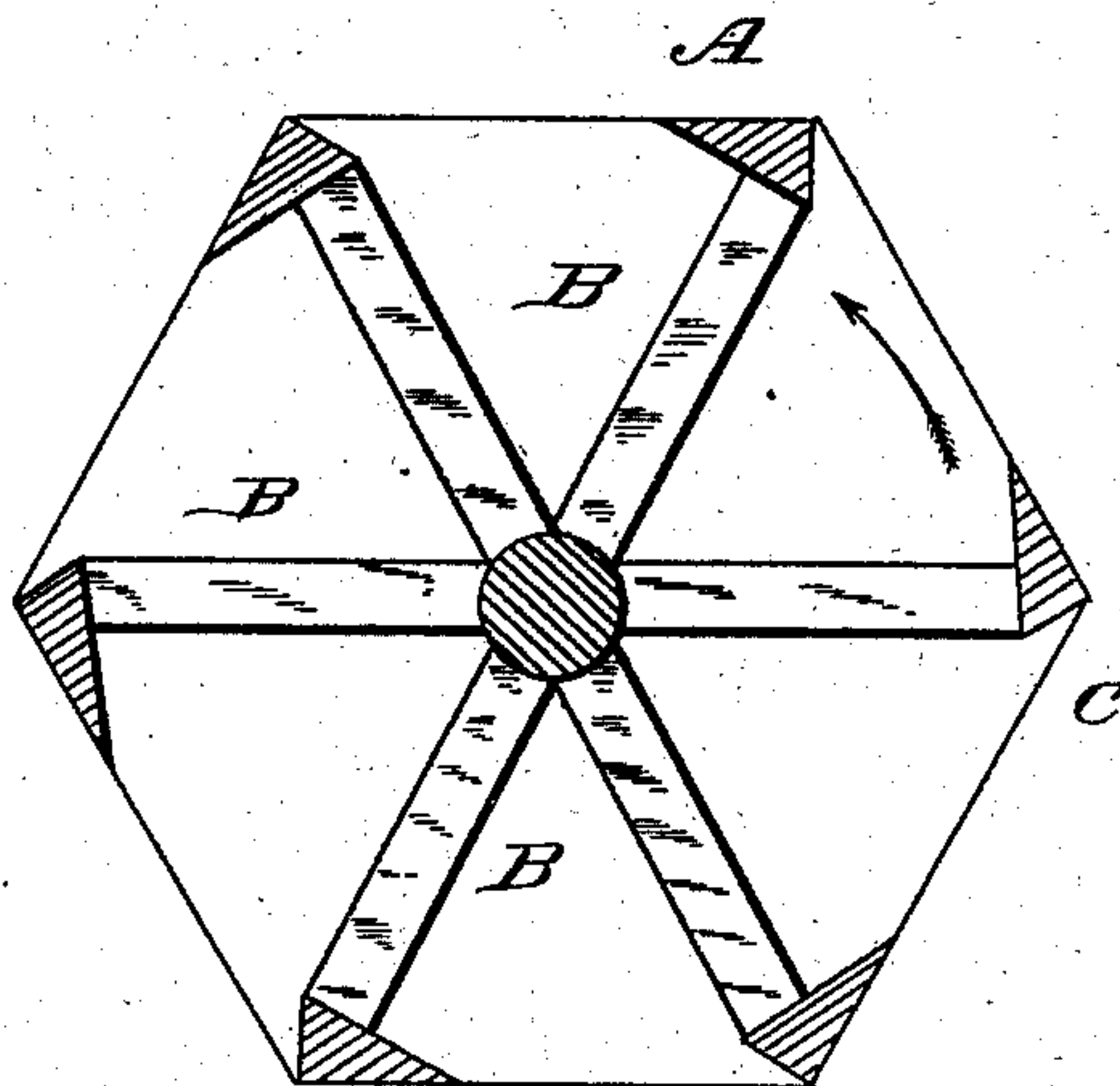


Fig. 1.

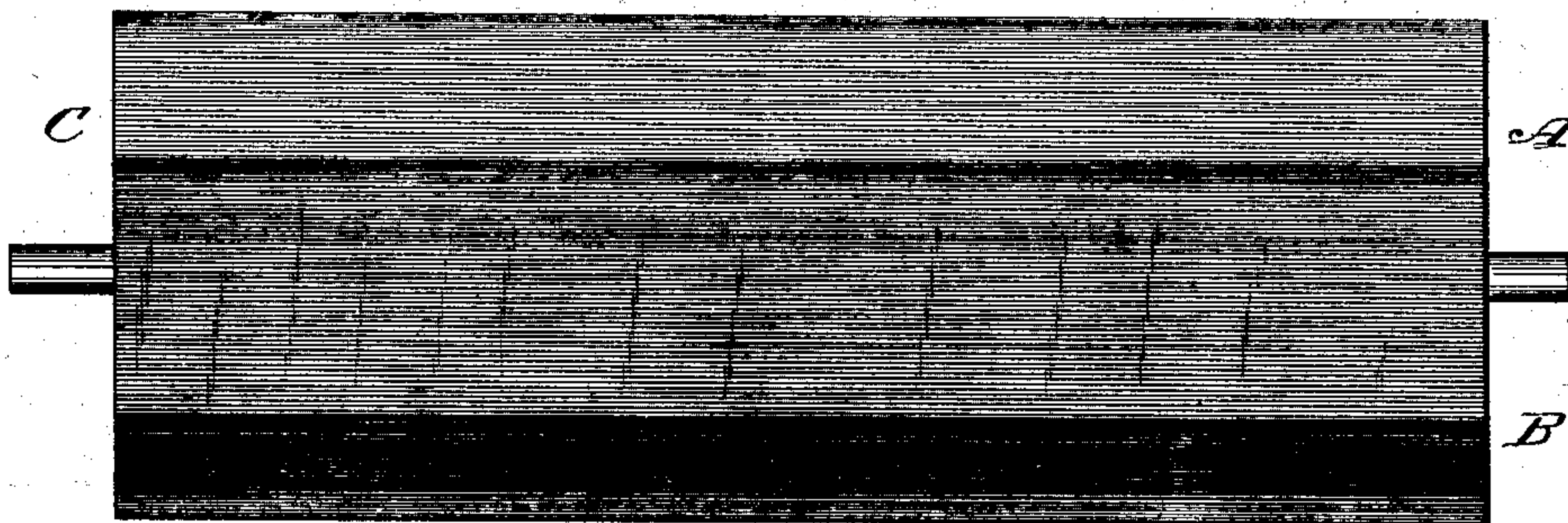


Fig. 2.

Witnesses:

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UNITED STATES PATENT OFFICE.

CHARLES A. SMITH, OF WEDOWEE, ALABAMA.

FLOUR-BOLT.

SPECIFICATION forming part of Letters Patent No. 289,935, dated December 11, 1883.

Application filed September 12, 1883. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. SMITH, a citizen of the United States, residing at Wedowee, in the county of Randolph and State of Alabama, have invented certain new and useful Improvements in Flour-Bolts; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to an improved bolting-reel which is simple in construction and durable and efficient in operation; and it consists of the combination and arrangement of parts, as will be hereinafter more fully described, and pointed out in the claim.

Referring to the drawings, in which like letters of reference indicate like parts, Figure 1 is a sectional view of my improved reel, showing my improved ribs mounted upon the radial arms of a reel, the arrow indicating the direction of revolution thereof. Fig. 2 is a perspective view of the reel.

A designates my improved rib, B the radial arms, and C the cloth.

In carrying out my invention I employ a float or rib triangular in cross-section, with its apex pointing in the direction in which the reel turns, as shown in Fig. 1, the base thereof being secured to the end of the radial arms by any suitable means.

In bolting flour with the ordinary reel having the square rib, the flour lodges upon the edges thereof, and a portion of it, after being carried to the highest point of the reel, is dropped, which not only injures the cloth,

but delays the bolting process by the repeated carriage of portions of flour to such point. To prevent the flour from being carried up, as described, and at the same time prevent it from clogging up the meshes of the cloth, knockers have been employed for occasionally rapping the frame and thus jarring the contents thereof. These rapping devices are objectionable, for the reason that specks of foreign matter fall through with the flour, and thus reduce its commercial value.

It will be observed that if the reel is turned in the opposite direction to that indicated by the arrow the same effect will be secured as when a square rib is employed—to wit, the flour will be carried farther up the side and portions of it to the top of the reel.

I am aware that a rib triangular in cross-section has been in use, the base of which is turned toward the inside of the reel, thus presenting a broad smooth surface touching the cloth on both sides thereof. This construction takes too much surface from the cloth, and does not give necessary fall to the flour.

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

In a bolting-reel, the combination of a shaft, radial arms, floats, or slats triangular in cross-section, with the apex at the advancing edge, and a surrounding bolting-cloth, the rear edges of the slats forming an abrupt fall for the material, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES A. SMITH.

Witnesses:

M. S. STEVENS,

B. F. WEATHERS.