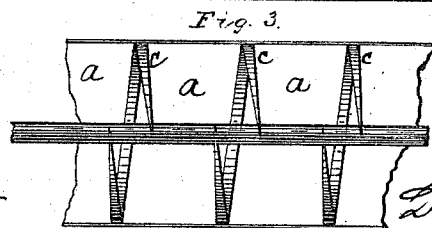
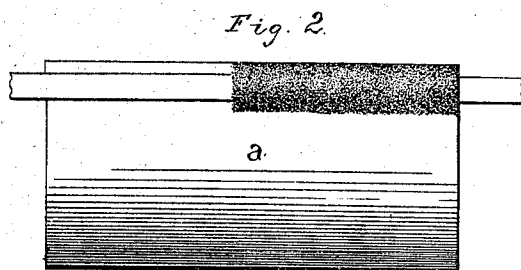
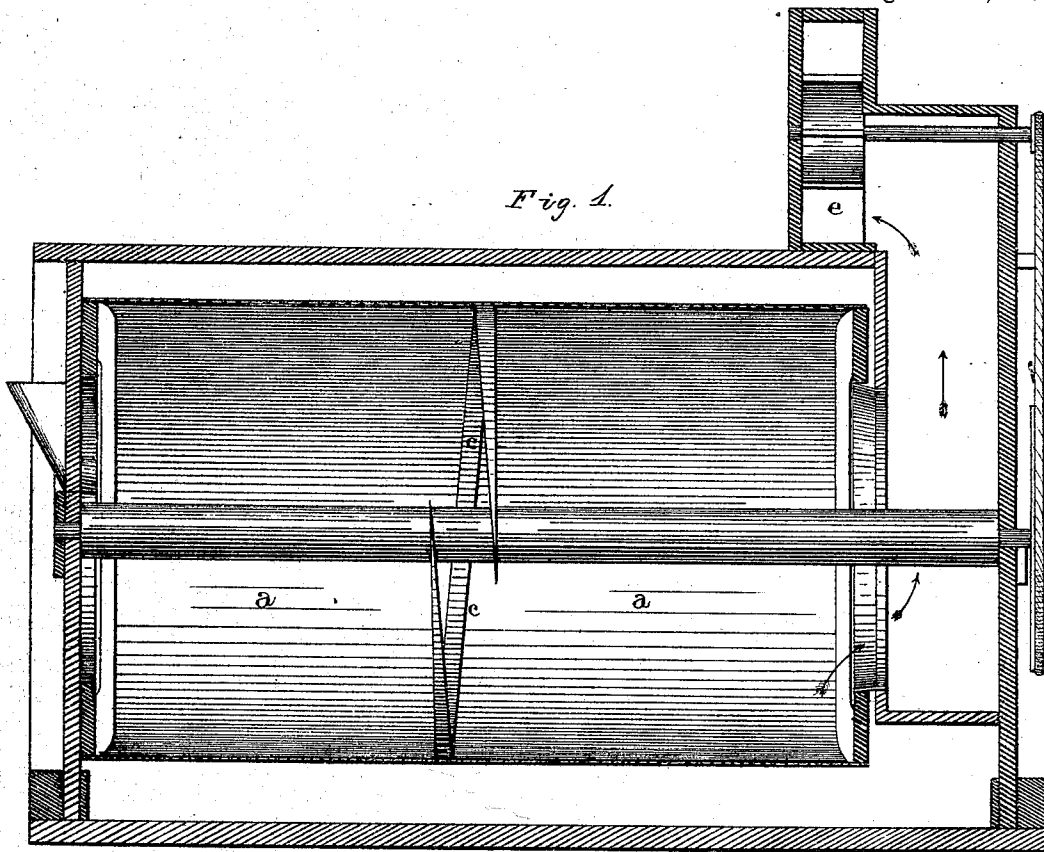


D. T. CHOAT & H. RICH.
Flour-Bolts.

No. 142,083.

Patented August 26, 1873.



WITNESSES.

Ab. H. Duhamel
Alex Davidson

INVENTORS.

David T. Choat
Henry Rich
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UNITED STATES PATENT OFFICE.

DAVID T. CHOAT AND HENRY RICH, OF CEDAR FALLS, IOWA.

IMPROVEMENT IN FLOUR-BOLTS.

Specification forming part of Letters Patent No. **142,083**, dated August 26, 1873; application filed April 14, 1873.

To all whom it may concern:

Be it known that we, DAVID T. CHOAT and HENRY RICH, of Cedar Falls, county of Black Hawk and State of Iowa, have invented certain new and useful Improvements in Mill-Bolts, of which the following is a specification:

The nature of our invention relates to an improvement in mill-bolts; and it consists in supporting the cloth directly upon a series of spiral ribs, as will be more fully described hereafter.

The accompanying drawings represent our invention.

a represents a round bolt having spiral ribs *c* arranged upon its inside at regular intervals, to which the cloth is tacked, and which allow the flour, middlings, or meal to pass unobstructedly through. Arranged upon the outside of the bolt, and in contact with it, is a stationary adjustable brush, which prevents the cloth from clogging, and keeps it alway free and clear. Placed above the bolt, and operated by a belt from the driving-shaft, is a suction-fan, *e*, of any suitable kind, which

draws up the specks and other impurities in the material being bolted, and drives them away into the air, thus preventing them from passing through the cloth into the flour, and enabling us to produce a better article than we otherwise could.

This round bolt is applicable to all purposes which the common octagonal one is used for, while it is free from the constant dashing motion inseparable from it.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

In a round mill-bolt or separator, the bolting-cloth supported directly upon a series of spiral ribs, substantially as specified.

In testimony that we claim the foregoing as our invention, we hereunto affix our signatures this 8th day of April, 1873.

DAVID T. CHOAT.
HENRY RICH.

Witnesses:

S. H. PACKARD,
T. B. CARPENTER.