9292½X

A. Wilder.

Mill Bolt.

Patented Dec. 15, 1835.

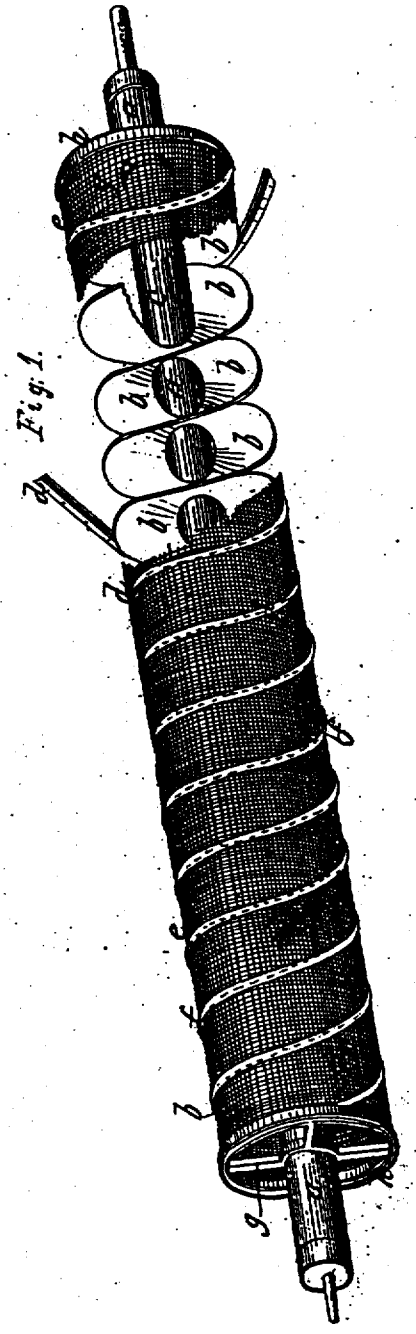


Fig. 1.

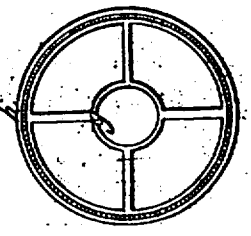


Fig. 2.

9293½X

Dec 15 1835 77

Arelius A Wilder Mount Morris New York

Letters Patent

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Arelius A Wilder himself of the improvement in the Spiral bolt for bolting flour

To all to whom these presents shall come, Be it known that I Arelius A Wilder of Mount Morris in the County of Livingston and State of New York have invented a new and useful Spiral bolt for bolting meal or flour and that the following is a full and exact description thereof —

This bolt should generally be made from ten to fifteen feet long and from twenty four to thirty eight inches in diameter. The shaft which passes through the centre of this bolt should be made of pine or other light timber and be about eight inches through. The thread which is wound around this shaft should be from eight to ten inches wide and made of some metalic substance such as tin copper or sheet iron and run at an angle of about ten degrees around the shaft. The foot or bottom of this thread is let into this shaft by having a groove cut around the shaft about a half an inch deep. there is also two grooves or flanges cut and turned each way on the bottom of the thread for the purpose of nailing through into the shaft around the under edge of the thread runs a hoop or rib and one inch wide and three fourths of an inch thick and made of tough hard wood with a groove in the under side to admit the thread about one fourth of an inch this is fastened to the thread by means of pins passing round it and through the one edge of the thread on this rib and is placed the bolting cloth over the whole these and following the rib and is put a narrow strip of leather through which nails are driven which holds the bolting cloth firmly to the rib and; the cloth is fastened at each end by means of two frames made in the following manner Around the ends of the shaft

9292½X

is a Cylinder bound with four arms, crossed and on the ends of
these arms is fastened an iron Hoop, the same size in diameter as the
bolt, on this is drawn the ends of the bolting cloth, & fastened by
Staving an other iron hoop, made to set snugly over the hoop that
-ported by the arms and bolting cloth, then the hoops are then
Screwed together which holds the ends of the cloth firmly The meal
or flour being admitted into the head of a fifteen feet bolt, passes
hand through a space of about one hundred and fifty feet before
coming out at the tail,

The advantages that which this Spiral bolt possesses
above any other is in Containing the meal longer in the bolt and
Carrying it thro' a much greater space — the small quantity of
meal also that is admitted between the intermediate threads is
carried Separately Straight from the head to the tail of the bolt.
Consequently it bolts it much more effectually.

What I Claim as my own invention
and not previously known in the above described Machine is
the frame or seat around which the bolting Cloth is put
and the fastenings at the ends

Witness
Joseph Potter
John Wilder Jr

Andrew J. Wilder
611 n. 4th