W. D. MURRAY.
FLOUR-BOLTS.

No. 181,095. Patented Aug. 15, 1876.

Fig. I.

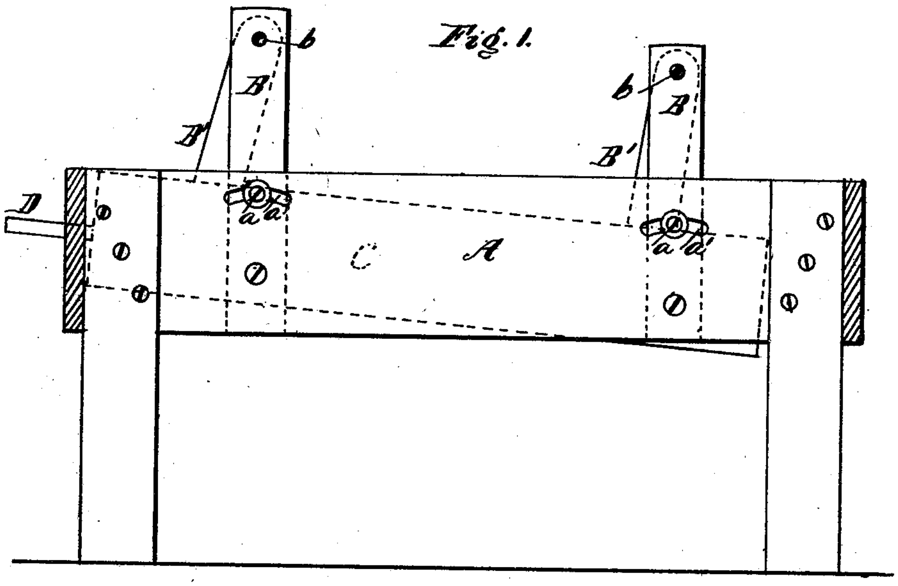


Fig. II.

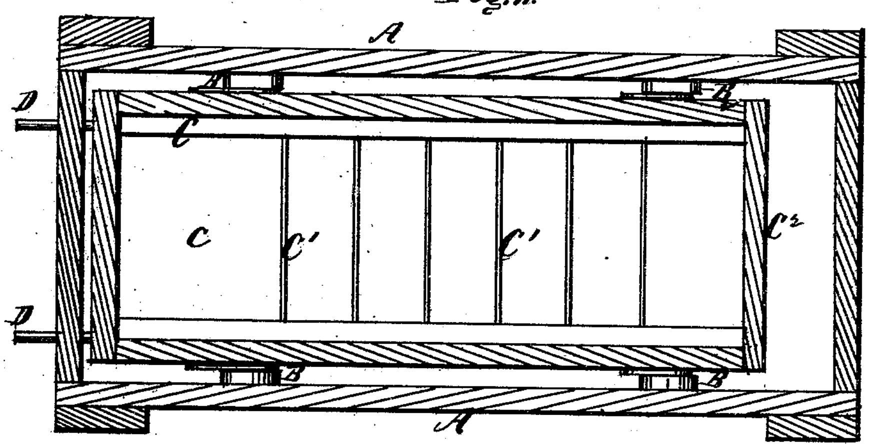
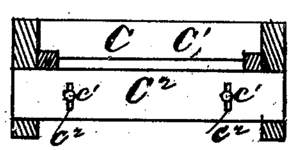


Fig. III



Witnesses:
Richard Gerner
Franklin Barritt

Inventor:
William D. Murray.
Per Henry Gerner, Atty

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM D. MURRAY, OF HAMILTON, MISSOURI.

IMPROVEMENT IN FLOUR-BOLTS.

Specification forming part of Letters Patent No. **181,095**, dated August 15, 1876; application filed May 31, 1876.

To all whom it may concern:

Be it known that I, WILLIAM D. MURRAY, of Hamilton, in the county of Caldwell and State of Missouri, have invented a new and useful Improvement in Flour-Bolts, of which the following is the specification:

This invention relates to an improvement in that class of flour-bolts in which the bolting-cloth is attached to a reciprocating frame.

The improvements relate, first, to the manner of attaching the sieve or frame of the bolt to adjustable supports; secondly, to a series of stops or rods for stirring up the flour while in the bolt; and, thirdly, to an adjustable tail-board, by means of which the bolting operation may be partially adjusted.

The invention will be readily understood by reference to the accompanying drawings, of which—

Figure 1 is a side elevation of the improved bolt or sieve. Fig. 2 is a plan of the same. Fig. 3 is a rear-end elevation of the sieve-frame.

The bolting-chest A has four adjustable posts, B, which are attached to the said chest by means of the screws or bolts *a*, that move in slots *a'*, so as to set the said posts in different positions, which may be either directly vertically, or inclined either forward or backward, so as to either accelerate or retard the bolting operation. To the top ends of these posts B are attached, by suitable pivot-joints *b*, the swinging rods B', by means of which the bolt or sieve frame C is suspended, so as to receive the vibrating or reciprocating motion from the driving-rods D, which may receive a reciprocating motion from suitable cranks or cams. Across the sieve or bolt frame C, and just above the cloth *c*, are placed transverse rods C^1, which are fixed to the sides of the said frame C. These rods act on the contents of the bolt or sieve to stir up the same, and thereby thoroughly separate the bran from the flour. The tail-board C^2 is attached to the frame C by means of screws or bolts c^1, which move in slots c^2 in the said board C^2, so that the said board may be adjusted and set at different heights, for the purpose of properly regulating the degree of closeness to which the flour may be separated from the bran.

Having described my invention, I claim—

The adjustable standards B, links B', pivoted thereto at their upper ends, set-screws *a*, and slotted supports A, substantially as and for the purpose set forth.

WILLIAM D. MURRAY.

Witnesses:

M. M. SHELLABERGER,

C. D. SHELLABERGER.