

E. DAVIES & J. GERRARD.
Improvement in Flour-Bolts.

No. 126,936.

Patented May 21, 1872.

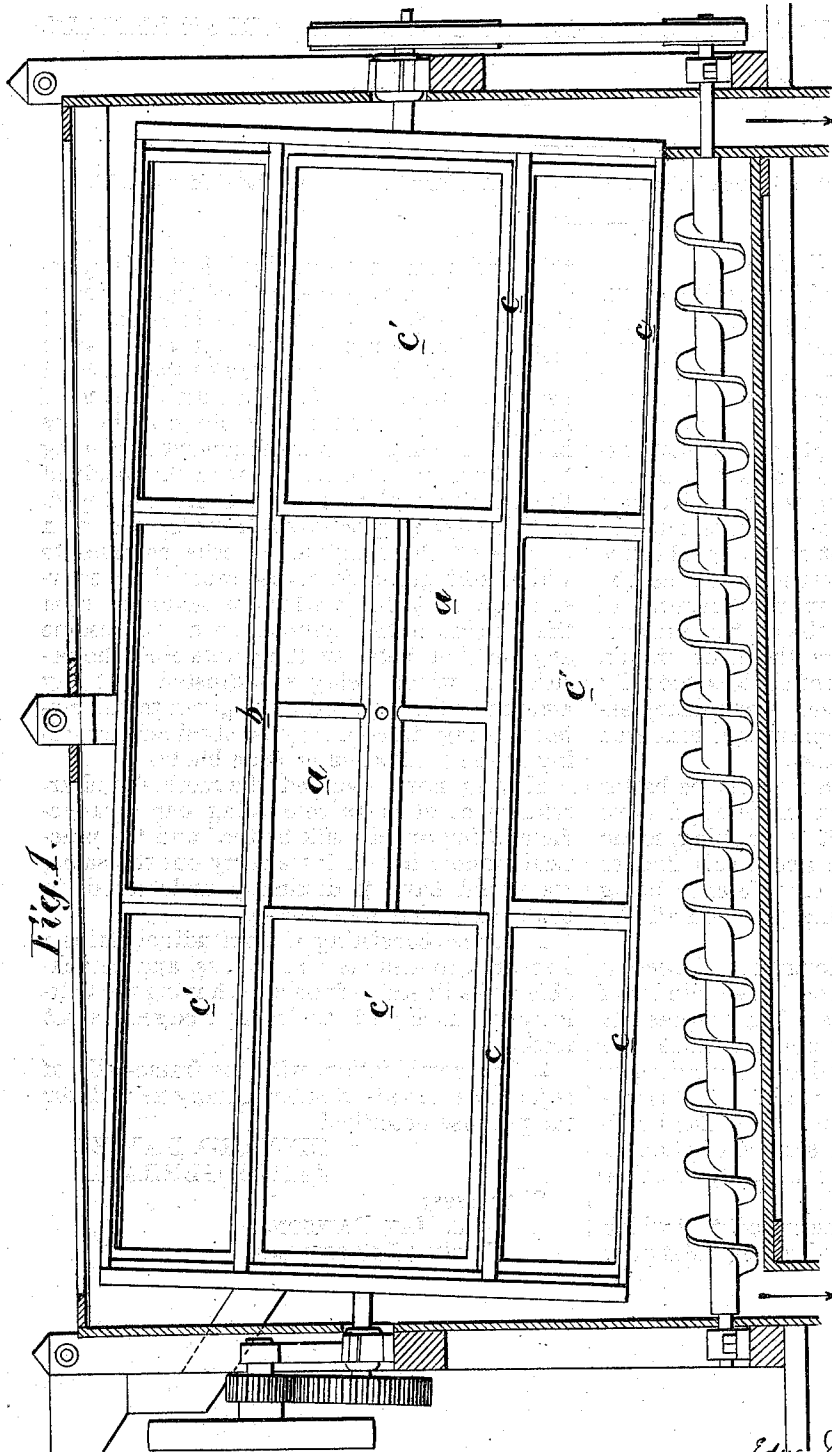


Fig. 1.

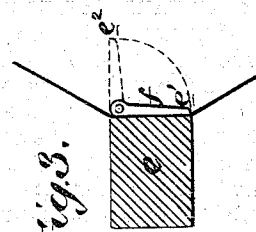


Fig. 3.

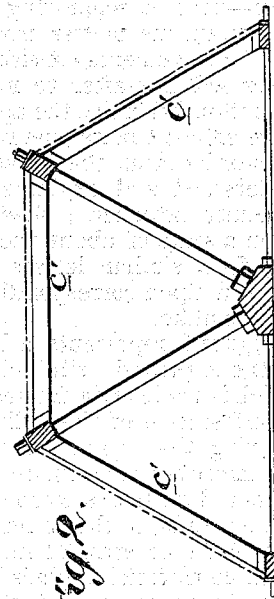


Fig. 2.

Witnesses, Harry Smith
Thos. M. [illegible]

Edw. Davies & Jas. Gerrard
by their Attn.
Howson and Son

UNITED STATES PATENT OFFICE.

EDWARD DAVIES AND JAMES GERRARD, OF LIVERPOOL, GREAT BRITAIN.

IMPROVEMENT IN FLOUR-BOLTS.

Specification forming part of Letters Patent No. 126,936, dated May 21, 1872; antedated May 4, 1872.

SPECIFICATION.

We, EDWARD DAVIES and JAMES GERRARD, both of Liverpool, in the county of Lancaster, Kingdom of Great Britain and Ireland, have invented "certain Improvements in Machinery or Apparatus to be employed for Dressing Flour, known as the Silk Bolter," for which Letters Patent of the Kingdom of Great Britain and Ireland were granted to EDWARD DAVIES, of which the following is a specification:

The invention relates to improvements in and a further development of the capabilities of the machine or apparatus known as the "silk bolter," employed in the dressing of flour—that is, separating the sharps, browns, or extraneous matter from the flour proper. The improvements consist of devices, too fully described hereafter to need preliminary explanation, whereby the apparatus is rendered more efficient in its operation.

In order that the invention may be better understood and explained in detail, I have hereunto attached a sheet of drawing, made upon a scale of about one and a half inch to the foot, similar letters of reference being marked upon corresponding parts on all the figures alike.

Figure 1 represents a longitudinal section of the improved "silk bolter," the cylinder of which is made up in frames. Fig. 2 represents a half section of the cylinder, the thick line showing the line of silk placed according to the improved construction; and Fig. 3 represents a detached section of one of the longitudinal rails, to the inner surface of which a flat blade or strip of metal, wood, or other suitable material is placed.

In these figures, *a* is the cylinder, in which the flour is placed to be dressed. Between

the longitudinal rails or ribs *b b* of this cylinder the frames *c c* are so placed that the silks *c' c'* may be flush with the inside of the said ribs; or the frames may be adjusted so as to allow a slight lift to be given to the material being dressed. In Fig. 3 an arrangement of lifter is shown that is applicable to all bolters in which our improved arrangement of placing the silks flush or on a level with the inside of the longitudinal ribs or rails are employed. In this view *e* represents a transverse section of one of the longitudinal ribs or rails, to which is hinged or otherwise secured the swivel blade or strip, *f*, which is actuated from the outside of the cylinder so as to assume any position between the points *e' e''*, the position of which being so adjusted that any amount of lift required to be given to the material being dressed may be obtained according to the inclination of such blade.

Having now described the method and arrangement of parts composing our arrangement of improved "silk bolter," and the practical manner in which we carry out the same, we would have it distinctly understood, in conclusion, that we claim—

1. A reel, consisting of longitudinal strips *b b* secured to disks or end frames, and detachable and adjustable frames *c c*, having the bolting-cloth flush with their inner edges, as set forth.

2. The combination, with the frame-rails, of adjustable blades *f*, substantially as and for the purpose described.

EDWARD DAVIES.
JAMES GERRARD.

Witnesses:

WM. HAY DAWSON,
JOSEPH BLACKBURN.