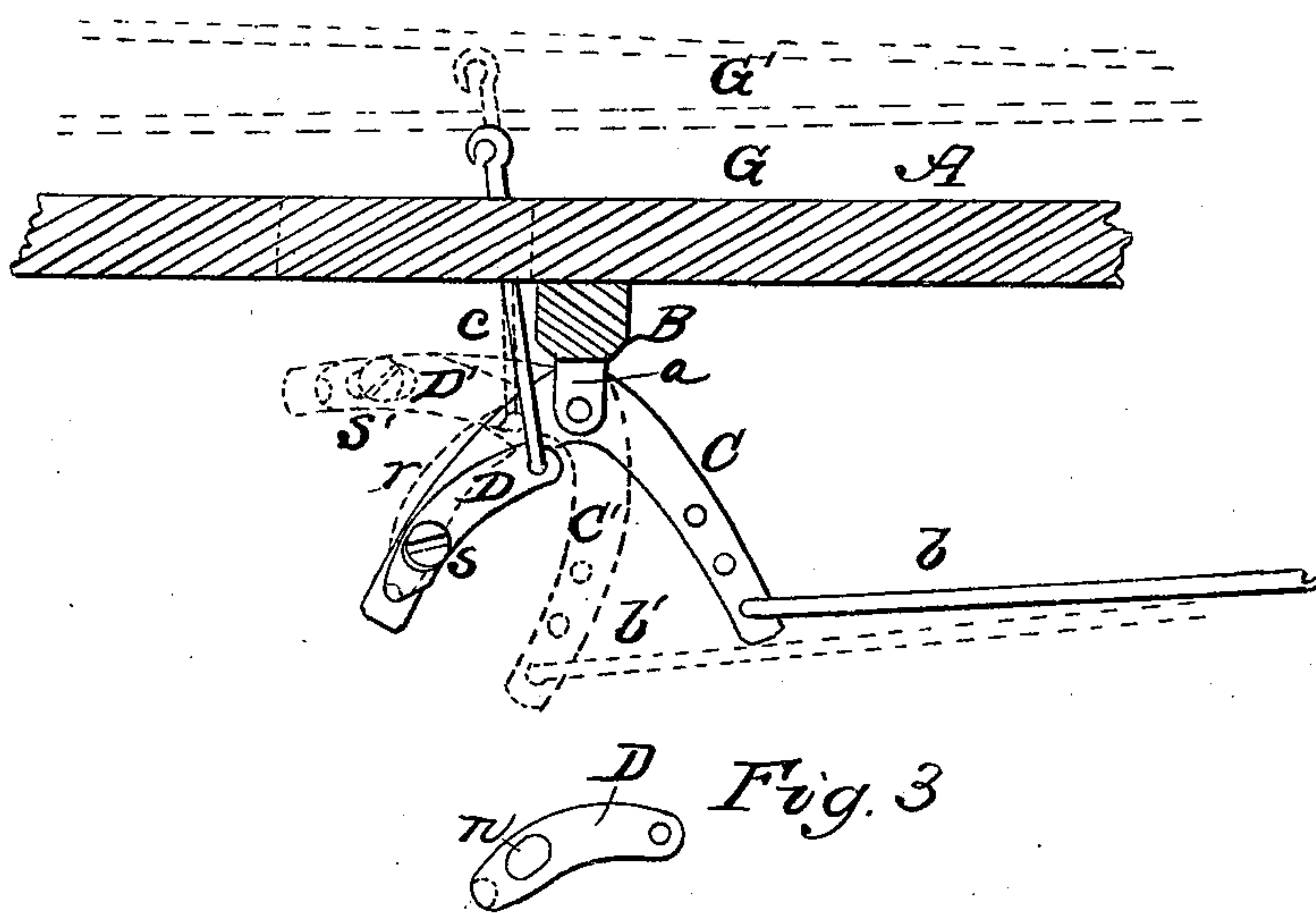
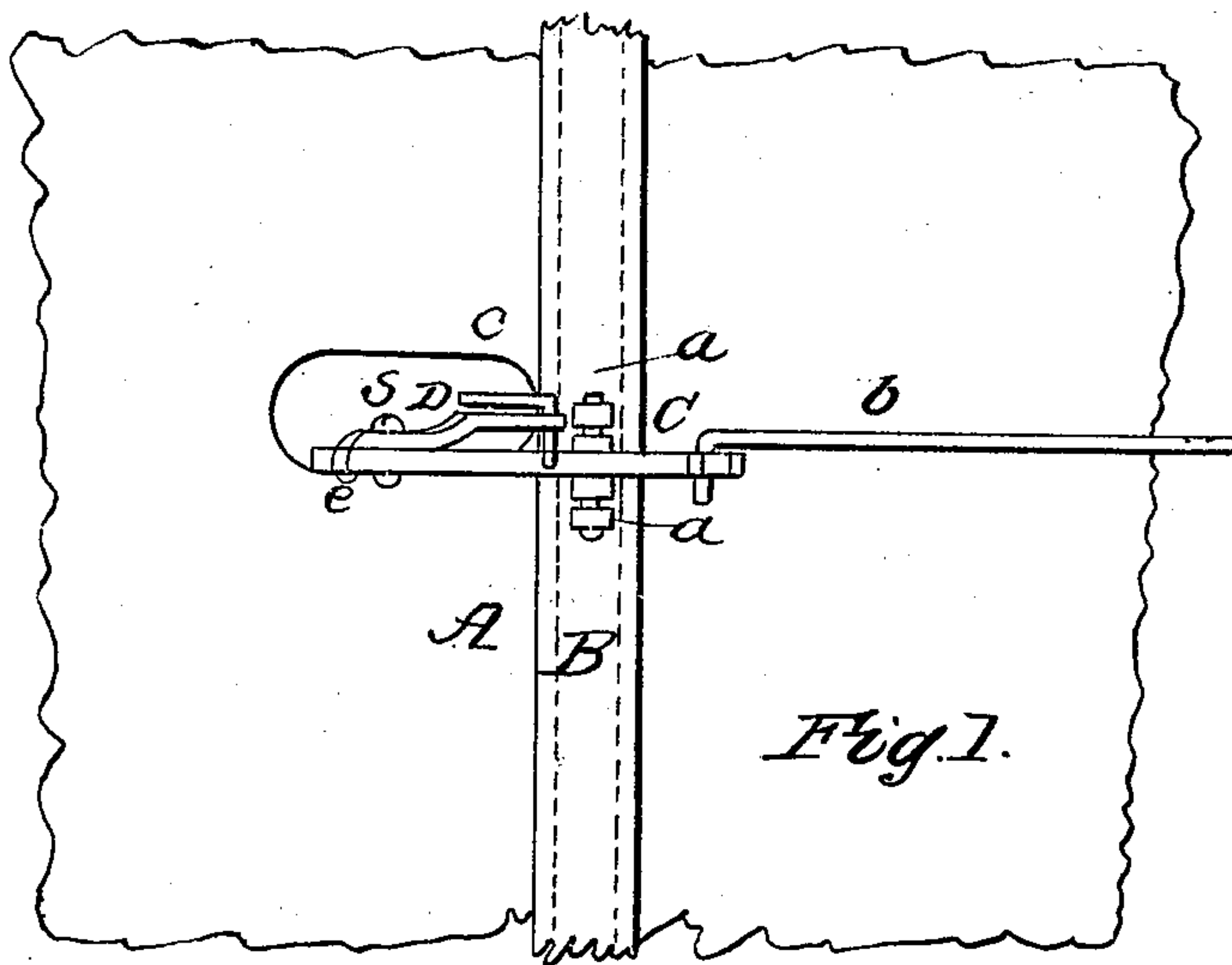


J. VAN HOUTEN.

Fanning Mill Shaker Attachment.

No. 42,132.

Patented March 29, 1864.



WITNESSES

Wm. Loughborough  
Hos. H. Billings

INVENTOR

Joseph Van Houten

# UNITED STATES PATENT OFFICE.

JOSEPH VAN HOUTEN, OF MOUNT MORRIS, NEW YORK.

## ATTACHMENT TO FANNING-MILL SHAKERS.

Specification forming part of Letters Patent No. 42,132, dated March 29, 1864.

*To all whom it may concern:*

Be it known that I, JOSEPH VAN HOUTEN, of Mount Morris, in the county of Livingston and State of New York, have invented a new and useful Attachment to Fanning-Mill Shakers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side elevation of the invention. Fig. 2 is a top view of the same, the dotted lines G and G' indicating the two opposite positions of the vibrating shoe. Fig. 3 is a plan of the attachment D.

Similar letters of reference indicate corresponding parts in the several figures.

This invention consists in providing an attachment to the ordinary anchor or shaker of fanning-mills for the purpose of reducing the shake or vibration of the shoe, and also to use it to retain its general central position.

A in the drawings represents a section of the side of the mill; B, a portion of the post to which the shaker is hinged by eyebolts *a*; C, the anchor or shaker, and D the attachment for reducing the vibration or "throw" of the shoe. This reduction is necessary in fanning-mills containing the improvements presented in my application for a patent for improvement in grain-separators, allowed October —, 1863. There is no provision made in the ordinary shakers C for so great a reduction in the action of the shoe as is required when my former improvements are applied to it, and it

is impracticable to drill a hole so near the axis of the anchor or shaker C without removing it from the mill, and this cannot be done without taking the mill apart, because the nuts of the eyebolts *a* are generally let into the back side of the post B, and are therefore covered by the side A. This attachment D is designed more especially to overcome these difficulties in producing the desired result (that is, to reduce the shake) in mills already in use. The attachment is provided with a pivot, *e*, which fits the holes through the shaker C, and near the same end is made an oblong hole, *n*, Fig. 3, to receive the clamping-screw *s*.

The object of making the hole *n* larger than the body of the screw is to permit the inner end of the attachment to be set one way or the other, as may be necessary, to keep the shoe of the mill in a central position, without changing the length of the connecting rod or hook *c*. The dotted lines *r*, Fig. 2, indicate the opposite adjustment of D from its present relative position with the shaker C.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

The employment of the attachment D, constructed, arranged, and operating substantially in the manner and for the purposes described, in combination with the shaker C.

JOSEPH VAN HOUTEN.

Witnesses:

WM. S. LAUGHBOROUGH,  
A. H. BILLINGS.