

(No Model.)

W. D. GRAY.  
SUPPORT FOR SHAKING SCREENS.

No. 454,132.

Patented June 16, 1891.

Fig. 1.

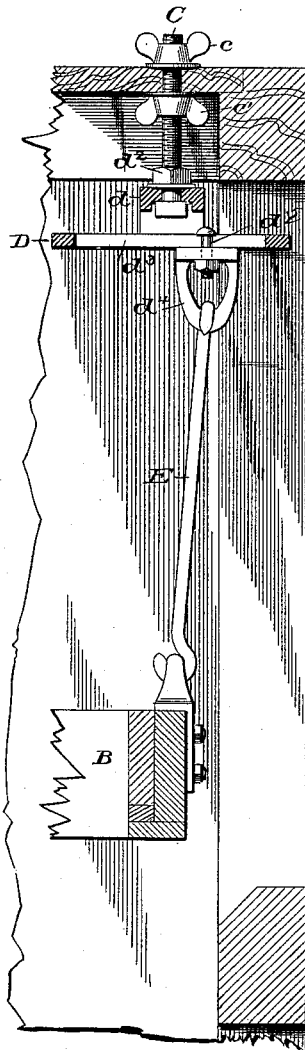
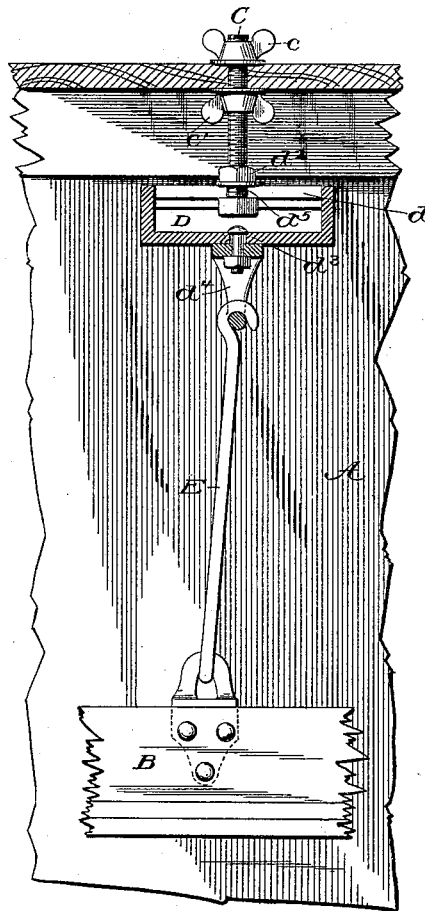


Fig. 2.



Witnesses:

William W. Mortimer.

H. A. Kennedy.

Inventor:

W. D. Gray

By his Atty

P. T. Lodge

# UNITED STATES PATENT OFFICE.

WILLIAM D. GRAY, OF MILWAUKEE, WISCONSIN, ASSIGNOR TO THE EDWARD  
P. ALLIS COMPANY, OF SAME PLACE.

## SUPPORT FOR SHAKING-SCREENS.

SPECIFICATION forming part of Letters Patent No. 454,132, dated June 16, 1891.

Application filed March 26, 1890. Renewed November 29, 1890. Serial No. 373,067. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM D. GRAY, of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain Improvements in Supports for Shaking-Screens, of which the following is a specification.

This invention relates to machines in which horizontal screens are suspended by pendent links so mounted that they may swing freely in all directions to permit a circulatory movement of the screen.

The invention has reference to an improved device for sustaining and adjusting the upper ends of the links in order that they may be brought into the position best adapted to secure a satisfactory action of the screen.

My improvements may be applied to machines which are in all other respects of ordinary construction, as it pertains exclusively to the manner of sustaining the links. I have omitted from the drawings the driving mechanism and other parts usually employed.

In the accompanying drawings, Figure 1 is a transverse vertical section through a portion of the frame-work and one side of the screen with my device applied thereto. Fig. 2 is a longitudinal vertical section illustrating the same parts.

Referring to the drawings, A represents a portion of the main frame, and B one side of the usual horizontal screen-frame.

C is a vertical bolt passing through the top of the main frame and provided above and below the same with thumb-nuts *c* and *c'*, which admit of its being raised and lowered at will.

D represents a casting having at the top a horizontal slotted bar *d* to receive the lower headed end of the vertical screw by which

the casting is sustained. The slot in the bar *d* admits of the casting being adjusted horizontally in the direction of the length of the machine, while a nut *d<sup>2</sup>*, applied to the screw above the bar D, serves to hold the casting firmly in the required position. The casting is formed at its lower part with a horizontal slotted bar *d<sup>3</sup>*, extending transversely of the machine, the slot in this lower portion extending at right angles to that in its upper portion. To the under side of the bar *d<sup>3</sup>* is secured an eye-plate *d<sup>4</sup>* by means of a vertical bolt *d<sup>5</sup>* passing through the slot, so that the eye-plate may be shifted at will along the bar *d<sup>3</sup>* transversely of the machine, in order to vary the lateral inclination of the link.

E represents one of the screen-sustaining links hooked at its upper end through the eye-plate *d<sup>4</sup>* and at its lower end through a plate on the side of the screen.

By means of the parts above described the operator is enabled to adjust the upper end of the link lengthwise or crosswise of the machine, and also to raise or lower it at will.

Having thus described my invention, what I claim is—

In combination with the main frame, the vertically-adjustable bolt, the casting sustained by said bolt and provided with the two horizontal slots at right angles to each other, the eye-plate adjustably secured to the casting, and the screen-sustaining link connected to the eye-plate.

In testimony whereof I hereunto set my hand, this 10th day of March, 1890, in the presence of two attesting witnesses.

WILLIAM D. GRAY.

Witnesses:

WM. BANNEN,  
EDW. F. BYRON.