

C. I. Dean,
Picker Guard.

No. 98,570.

Patented Jan. 4. 1870.

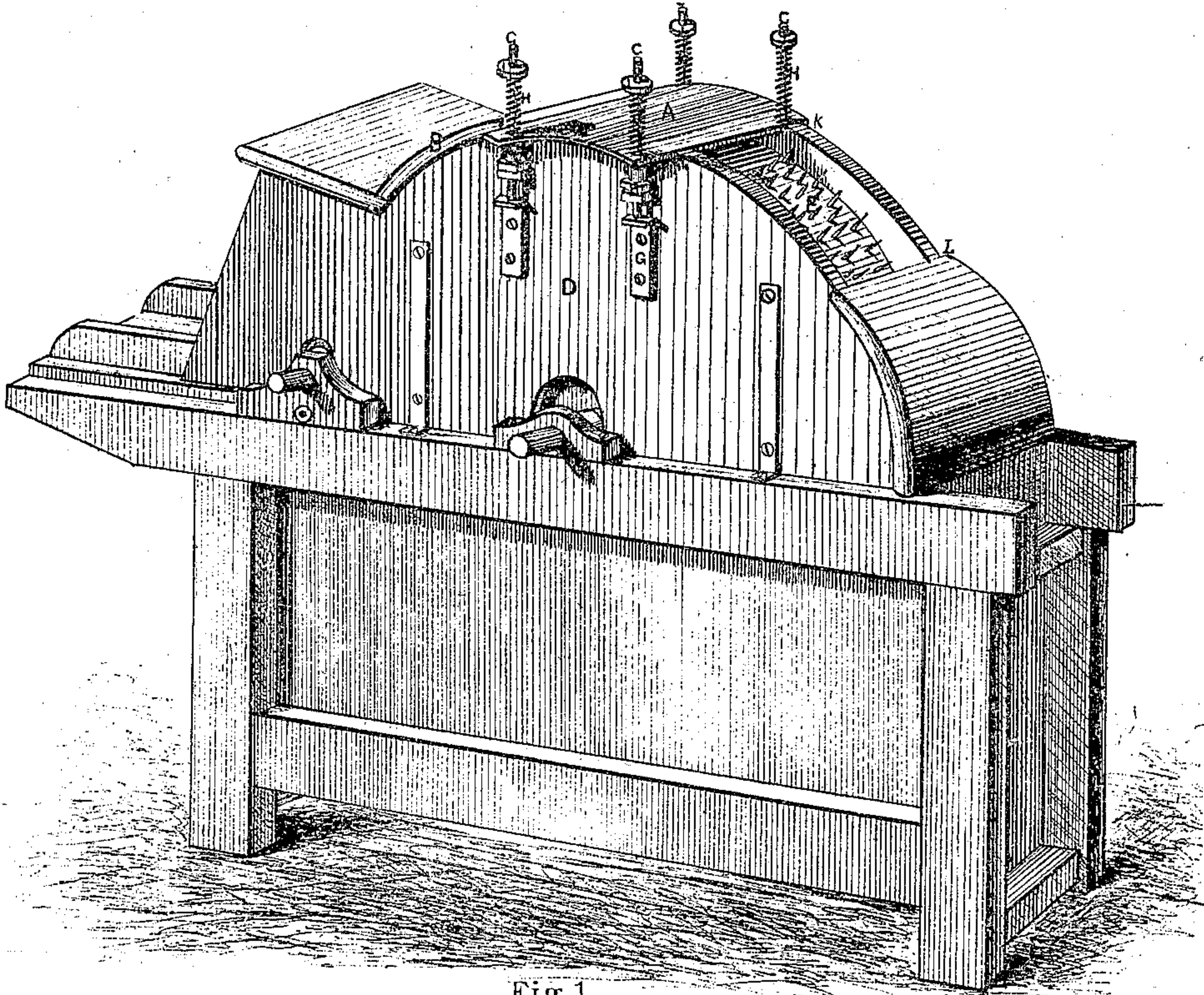


Fig. 1.

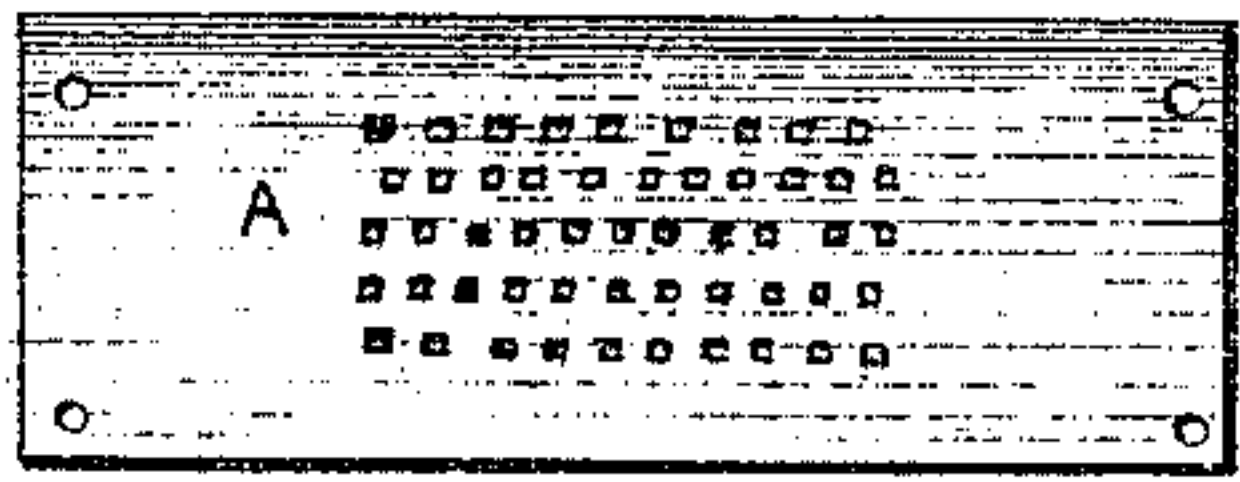


Fig. 2.



Fig. 3.

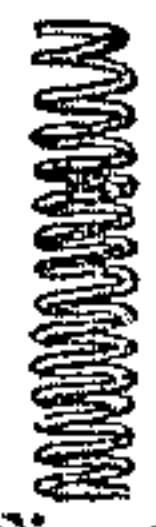


Fig. 4.



Fig. 6.



Fig. 5.

Witnesses. { *L. E. Johnson*
W. F. Ray.

Inventor. *Charles I. Dean,*

United States Patent Office.

CHARLES I. DEAN, OF FRANKLIN, MASSACHUSETTS, ASSIGNOR TO HIMSELF AND FRANCIS B. RAY, OF SAME PLACE.

Letters Patent No. 98,570, dated January 4, 1870.

IMPROVEMENT IN GUARD FOR MACHINE FOR PICKING WASTE.

The Schedule referred to in these Letters Patent and making part of the same.

I, CHARLES I. DEAN, of Franklin, county of Norfolk, and Commonwealth of Massachusetts, have invented an Improved Picker-Guard, of which the following is a specification.

My invention relates to the attachment of a yielding concave section or plate over the cylinder of pickers used for cotton, wool, rags, or other fabrics, in such manner as to separate and throw off from the fabric foreign substances.

Description of the Accompanying Drawings.

Figure 1 is a perspective of a picking-machine, showing my invention attached, and the manner of attaching it.

Figure 2 is an under-side view of the plate, showing the manner in which it is prepared when not used in a smooth state.

Figure 3 is a section of the plate, showing the teeth of the same when not used in a smooth state.

Figure 4 is the spring used in adjusting the plate.

Figure 5 is the nut, which screws upon the bolt or post above the spring.

Figure 6 is the bolt or post, which passes through the corners of the plate.

General Description.

A is a concave section or plate, constructed of iron, or an equivalent material, and of a size to suit the dimensions of the machine to which it is to be attached.

The plate A is placed close to the picker-cap or bonnet B, and held over the cylinder E by means of four bolts or posts C, which pass loosely through the corners of the plate, and are fastened to the frame of the machine D by means of screws, or otherwise, as at G. Each bolt is provided with nuts below the

plate, as at F, by means of which the plate A can rest upon the frame of the machine, or be adjusted above it.

Above the plate there is placed, upon each post, a spiral spring, H, which is kept in place and adjusted by means of nuts screwed upon the tops of the posts, as at J. Said springs keep the plate in its position near to the picker-teeth, or allow it to yield to any pressure from beneath, by moving up and down on the posts.

As the cylinder revolves, substances passing through the machine, and not suitable for fabrics, instead of being thrown upward into the air, as soon as released from the cap, and falling back upon the machine, are carried along by the plate of the guard until they reach the opening between K and L, through which they are thrown entirely outside of the machine. Substances of a soft nature, are caught by the teeth or roughness on the under side of the plate A, rolled up into wads or balls, by the motion of the cylinder, until the plate yields to the pressure, and allows them to escape, and the centrifugal force throws them beyond the machine.

I do not claim the machine, or any part thereof, other than the attachment, as above described.

I claim, as my invention—

The yielding spring concave section or plate A, having its under side made smooth, rough, or with teeth, and applied and operating in connection with the picking-cylinder, substantially as and for the purpose set forth.

CHAS. I. DEAN.

Witnesses:

WILLIAM ROCKWOOD,
WILLIAM F. RAY.