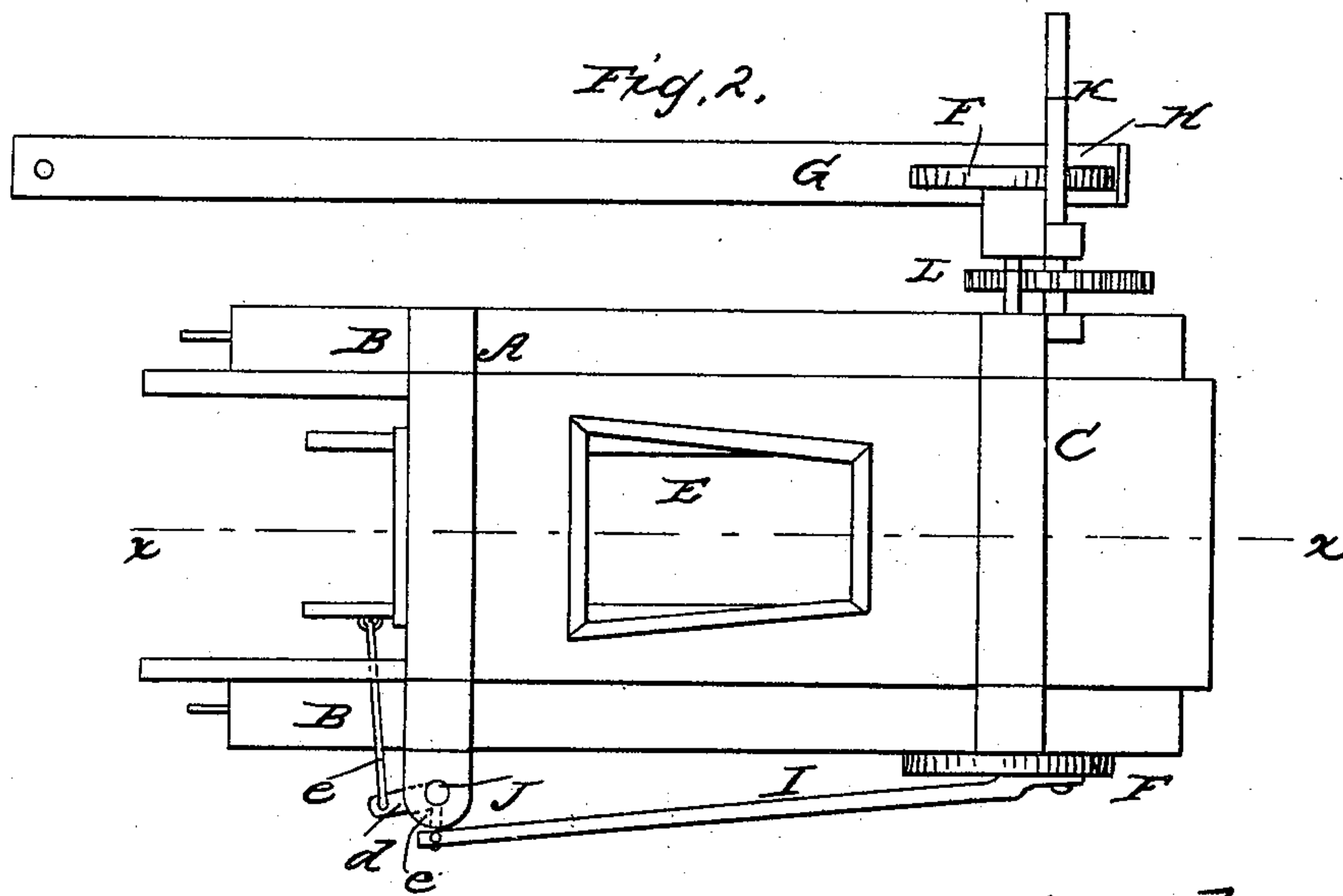
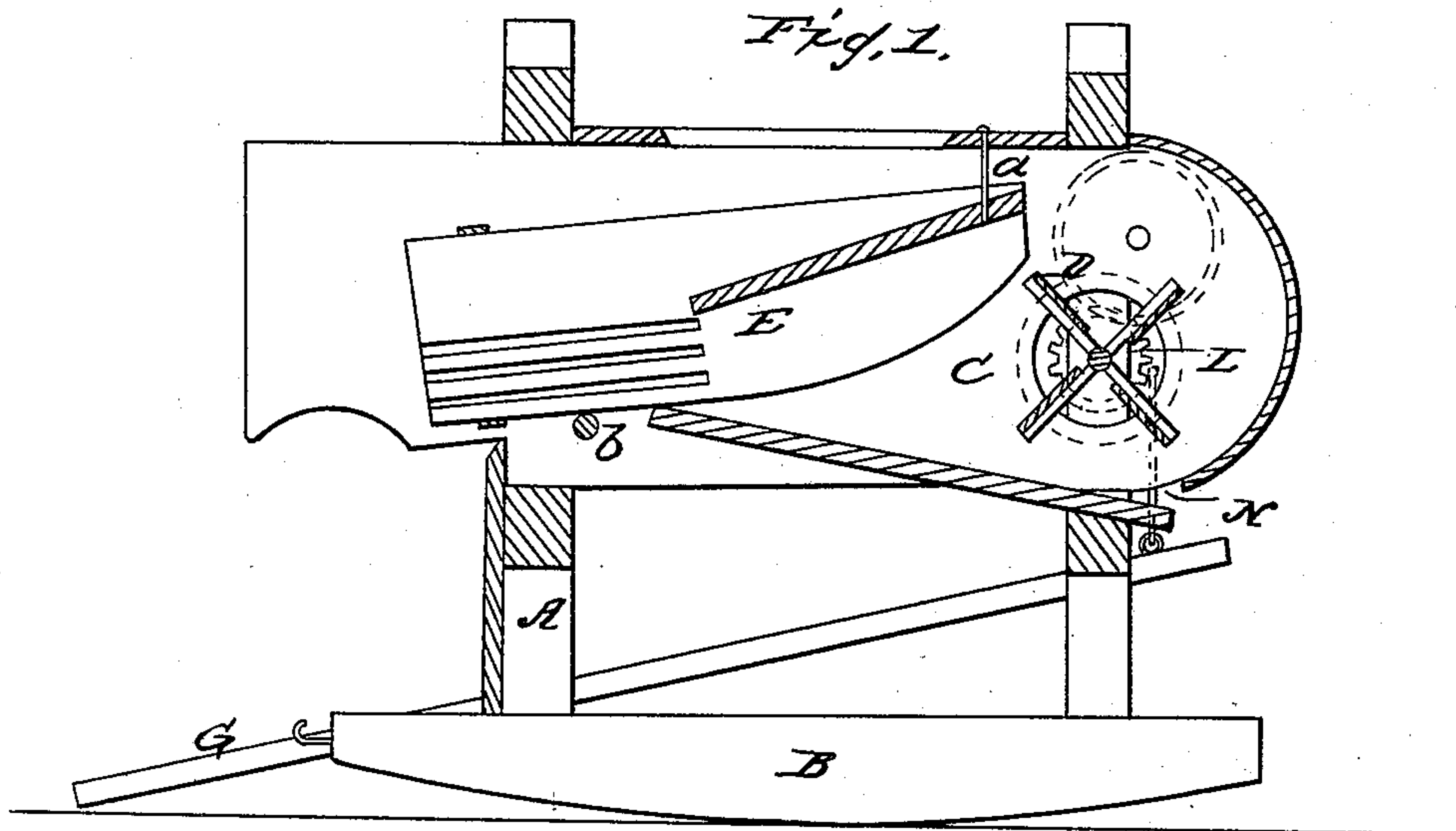


Grain Separator.

No. 54,403.

Patented May 1, 1866.



Witnesses:
Wm. Courn
Thos. Tusch

Inventor:
J. J. Price
J. J. Price & Co.
Albany.

UNITED STATES PATENT OFFICE.

T. J. PRICE, OF SOUTH UNION, KENTUCKY.

IMPROVEMENT IN GRAIN-SEPARATORS.

Specification forming part of Letters Patent No. 54,403, dated May 1, 1866.

To all whom it may concern:

Be it known that I, T. J. PRICE, of South Union, in the county of Logan and State of Kentucky, have invented a new and Improved Grain-Winnowing Machine or Fanning-Mill; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side sectional view of my invention, taken in the line *xx*, Fig. 2; Fig. 2, a plan or top view of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new and improved manner of operating or driving the working parts of the machine, to wit, the rotary fan and vibrating shoe which contains the screens; and, second, in placing the machine on curved bases or rockers, whereby it may be adjusted in a horizontal or a more or less inclined position, in order that the feed may be varied or regulated, as desired.

A represents the framing of the machine, which is placed upon two rocker-shaped bases or sleepers, B B, and has a case, C, formed or placed in it, in which a rotary fan, D, is placed, and a shoe, E, the latter being provided with a series of screens.

The shoe E is suspended at its rear end within the case C by one or more rods, *a*, its front part resting on a cross-bar, *b*; and the fan D is placed behind the shoe, so that a blast may be directed by it directly over the screens, as shown clearly in Fig. 1.

The shaft of the fan D extends through the sides of the box or case C, and has pulleys F F' on its ends, one of which, F, serves as a crank-pulley, and is connected to a treadle, G, by a pitman, H. The other pulley, F', has one end of a rod, I, attached to it at some distance from its center, the opposite end of said rod being also connected to an arm, *c*, which pro-

jects horizontally from a vertical shaft, J, at one side of the framing A, the shaft J also having an arm, *d*, projecting from it horizontally, and which arm is connected by a rod, *e*, with the shoe E.

Motion is given the fan D by the treadle G, and a shake motion is communicated to the shoe E by means of the pulley F', rod I, shaft J, and rod *e*.

In consequence of having the machine placed on the rocker-shaped bases or sleepers B B, it may, by means of scotches placed under B, be adjusted in a horizontal or a more or less inclined position, so as to regulate the passage of the grain over the screens in the shoe, as may be desired, and to vary the feed, for it will be understood that by thus adjusting the machine the shoe E is adjusted in a corresponding manner and the grain allowed to pass more or less quickly from the hopper into the shoe. The feed, therefore, may be varied according to the condition of the grain to be cleaned or separated from impurities.

By giving motion to the working parts through the medium of a treadle, the hands of the operator are left free to adjust any parts about the machine or perform any manipulation required, such, for instance, as placing the grain in the hopper or assisting in doing so.

The pulleys F F' may be of such dimensions and weight as to serve as fly-wheels, and a shaft, K, may be connected to the fan-shaft by gearing L, said shaft having a fly-wheel upon it, if desired.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of the rockers B B with a fanning-mill, as and for the purposes specified.

T. J. PRICE.

Witnesses:

M. S. MOREHEAD,
F. H. JOHNSON.