

C. WOOD.
Grain-Separator.

No. 203,864.

Patented May 21, 1878.

Fig. 1.

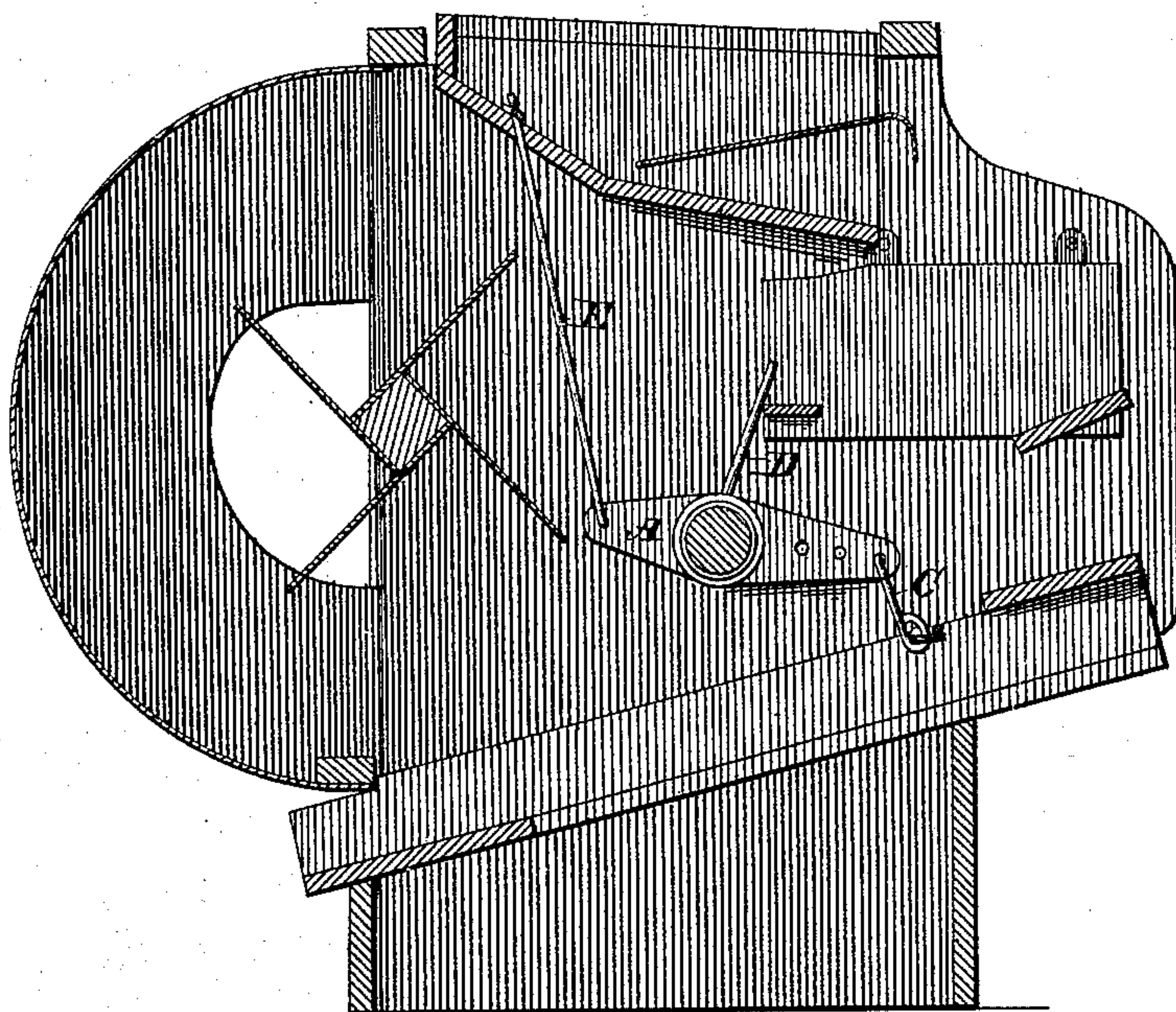
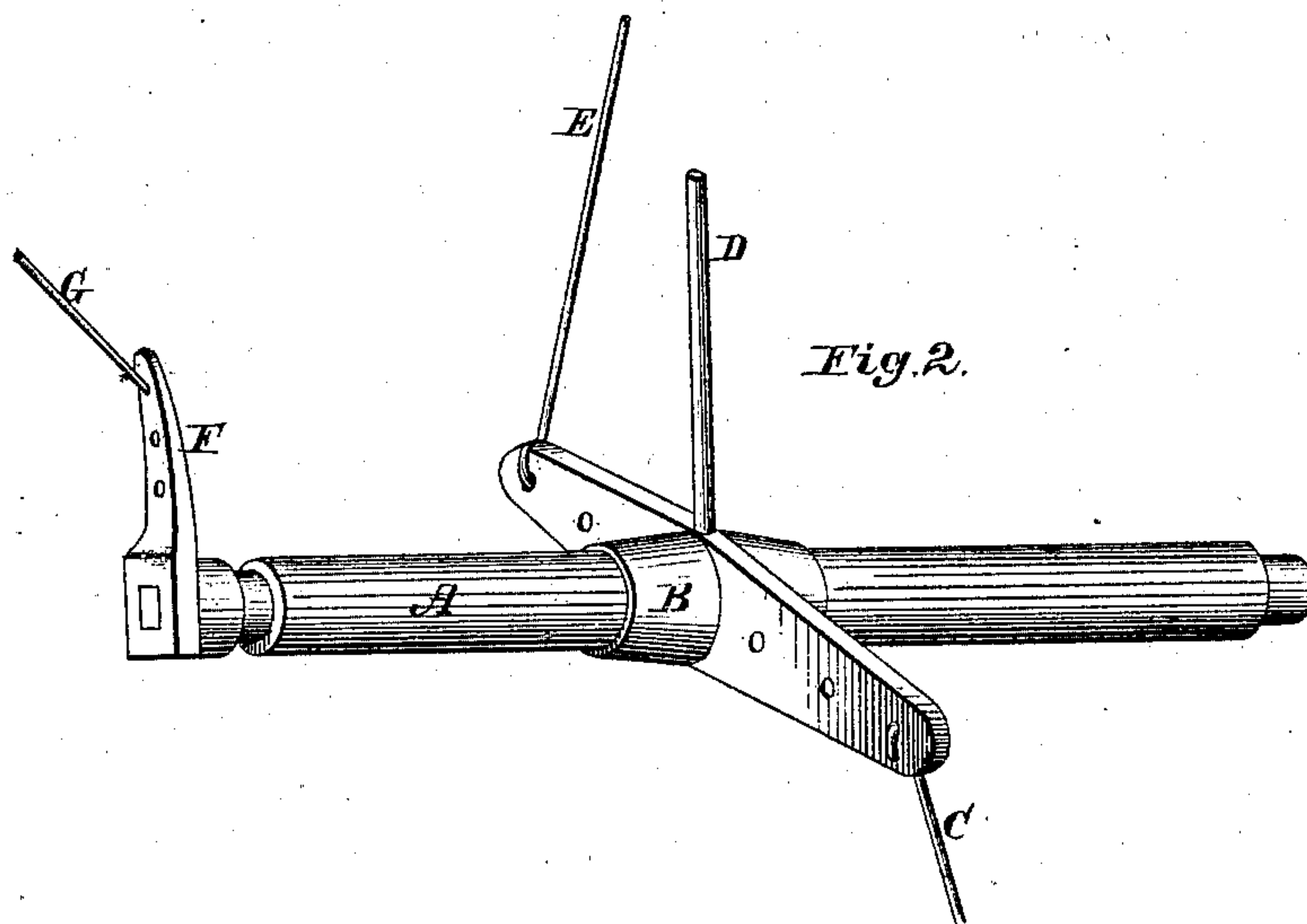


Fig. 2.



Attest.

G. R. Little
Chas. Stevens.

Inventor.

Clark Wood.

UNITED STATES PATENT OFFICE.

CLARK WOOD, OF COCHRANTON, PENNSYLVANIA.

IMPROVEMENT IN GRAIN-SEPARATORS.

Specification forming part of Letters Patent No. **203,864**, dated May 21, 1878; application filed January 17, 1878.

To all whom it may concern:

Be it known that I, CLARK WOOD, of Cochran, in the county of Crawford and State of Pennsylvania, have invented a new and useful Improvement in Fanning-Mills, of which the following is a specification:

The invention relates to a device for giving motion to the shoe that carries the riddle or screens in a fanning-mill or grain and grass-seed cleaner and separator.

The object of my invention is to provide a fanning-mill with a movable hopper, and with a forward-and-back shake to the upper riddle-shoe and and up-and-down motion to the lower riddle-shoe.

The invention consists in the arrangement of a device on a shaft to be placed through the mill in front of the fan, or between the fan and riddle-shoe, whereby motion is transmitted to the hopper and the two riddle-shoes; and it consists of that particular construction and arrangement.

In the accompanying drawing, Figure 1 is a sectional view of a fanning-mill embodying my invention; Fig. 2, a detail view.

On the shaft A, which is placed across the mill between the fan and upper riddle-shoe, and securely journaled in boxes or bearings, is placed the casting B, properly secured by upright arm D. In the near end of casting B

is a hook, C, which is attached to the lower or separating shoe. In the far end of casting B is a rod, E, the upper end of which is attached to the bottom of the hopper, while the top of the upright arm D is allowed to press against the back part of the upper riddle-shoe.

The operation of the device is as follows: When power is applied by means of the rod G, the far end of which is attached to the wheel on the end of the fan-shaft, and the near end placed in the casting F attached to shaft A, it causes oscillating movement, and transmits the motion to the different parts, as follows: The hopper rises and the upper riddle-shoe is pressed forward at the same time that the lower or separating shoe drops down, and vice versa, thus acting on a balance, causing the mill to run easily, as it requires but little power to keep the shaft A in motion.

What I claim is—

In connection with the movable hopper and riddle-shoes, the shaft A, the casting B with the hook C and rod E, and upright arm D, substantially as described.

CLARK WOOD.

Witnesses:

G. E. LITTLE,
CHAS. STEVENS.

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