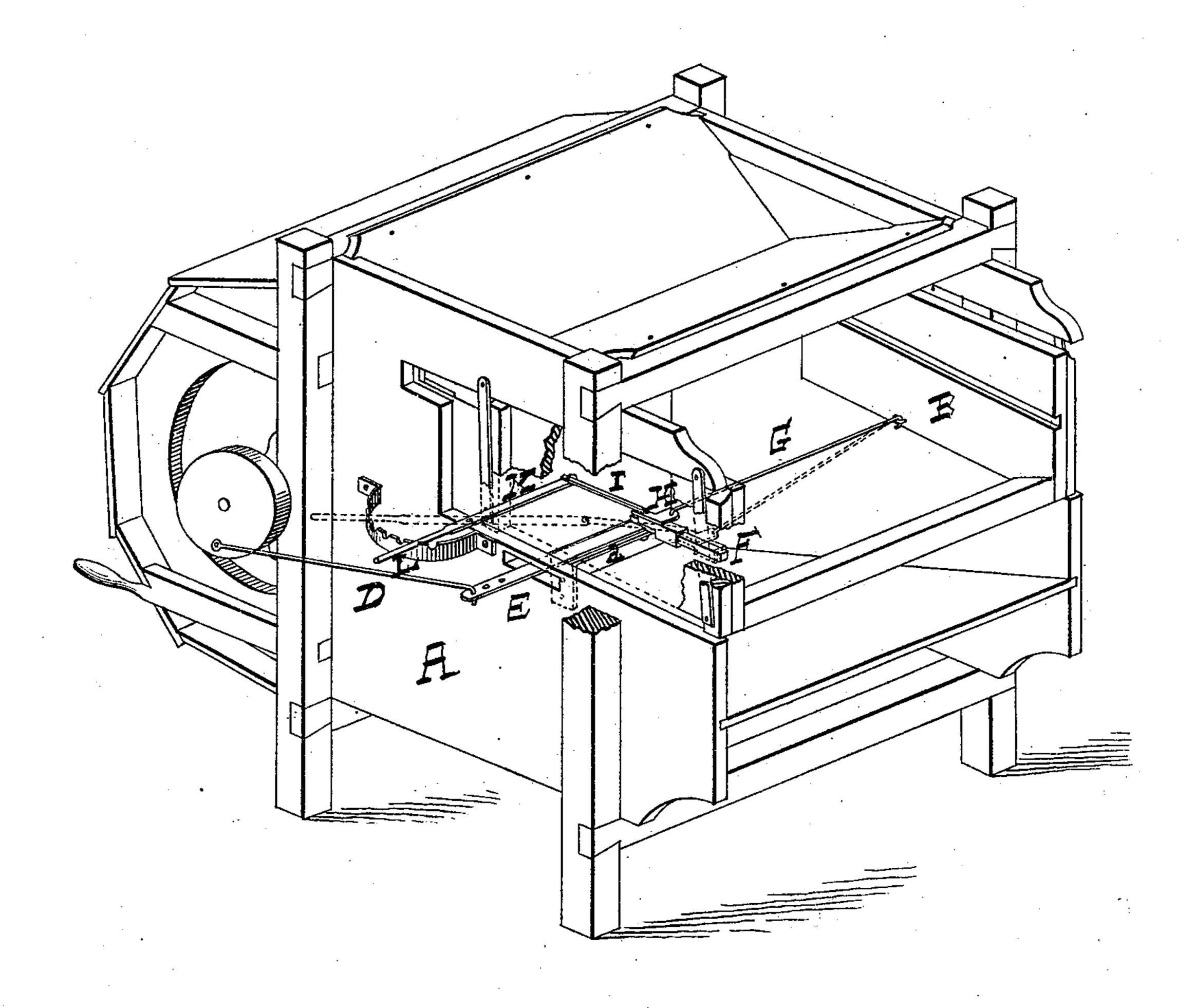
(Model.)

I. M. HUTCHES.

FANNING MILL.

No. 251,443.

Patented Dec. 27, 1881.



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Inventor.

I Militar

United States Patent Office.

IRA M. HUTCHES, OF MARBLE ROCK, IOWA.

FANNING-MILL.

SPECIFICATION forming part of Letters Patent No. 251,443, dated December 27, 1881.

Application filed October 8, 1880. Renewed November 8, 1881. (Model.)

To all whom it may concern:

Be it known that I, IRA M. HUTCHES, of Marble Rock, Floyd county, State of Iowa, have invented a new and useful Improvement in Fanning-Mills, which is likewise applicable to all sorts of grain separating and cleaning machines which employ a shaking-shoe or sieve, of which the following is a specification.

The object of my invention is to provide a means for controlling the "shake" or throw of the shoe or frame carrying the separating screens or sieves without waste of force or the stoppage of the machine; and it consists in the means hereinafter more particularly set forth.

In the accompanying drawing, A is a fanning-mill of the usual shape and structure.

B is the shoe usually forming part of such machine.

C is a crank-pulley mounted on one end of the fan-shaft, and communicating motion to the shoe B through a pitman or link, D, elbow-lever E, mounted upon a bar or bracket, a, secured to the side of the mill, and a link, G, which at one end is connected to shoe B at any suitable point—preferably at the opposite side thereof—and at the other end to an eye formed in or upon a sieve, H, sliding back and forth upon the arm F of elbow-lever E. The sleeve and arm fit snugly together, and by preference are made square or otherwise angular in cross-section to secure steadiness. It may be otherwise formed, if desired.

A pivoted link, I, connects the end of the sliding sleeve H nearest to the pivot of lever 35 E with the inner limb of a hand-lever, K, ex-

about the same distance as the fulcrum of lever E. This lever K is pivoted upon the edge of the mill-casing where it is cut away for the shoe, or elsewhere, according to the necessities 40 of various constructions.

Lever K may be moved back and forth, as shown, to alter as may be desired the mechanical length of the arm F of lever E and the consequent throw (or length of reciprocation) of 45 shoe B. A notched segment, L, tastened outside of the mill, serves to secure the lever K in any desired position.

It is obvious that changes of detail may be made without departing from the spirit of the 50 invention.

My contrivance permits the alteration or throw to be effected without stoppage of the machine.

I claim—

1. The combination of crank-pulley C, link D, elbow-lever E, sliding sleeve H, link G, and shoe B with mechanism for adjusting the sleeve H from the outside of the machine, substan-

2. The combination of crank-pulley C, link D, elbow-lever E, sliding sleeve H, suitably connected to shoe B, and adjusting-lever L, loosely connected to sleeve H, substantially as set forth.

tially as and for the purpose set forth.

I. M. HUTCHES.

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Witnesses:
F. PADDLEFORD,
WM. MOORE.