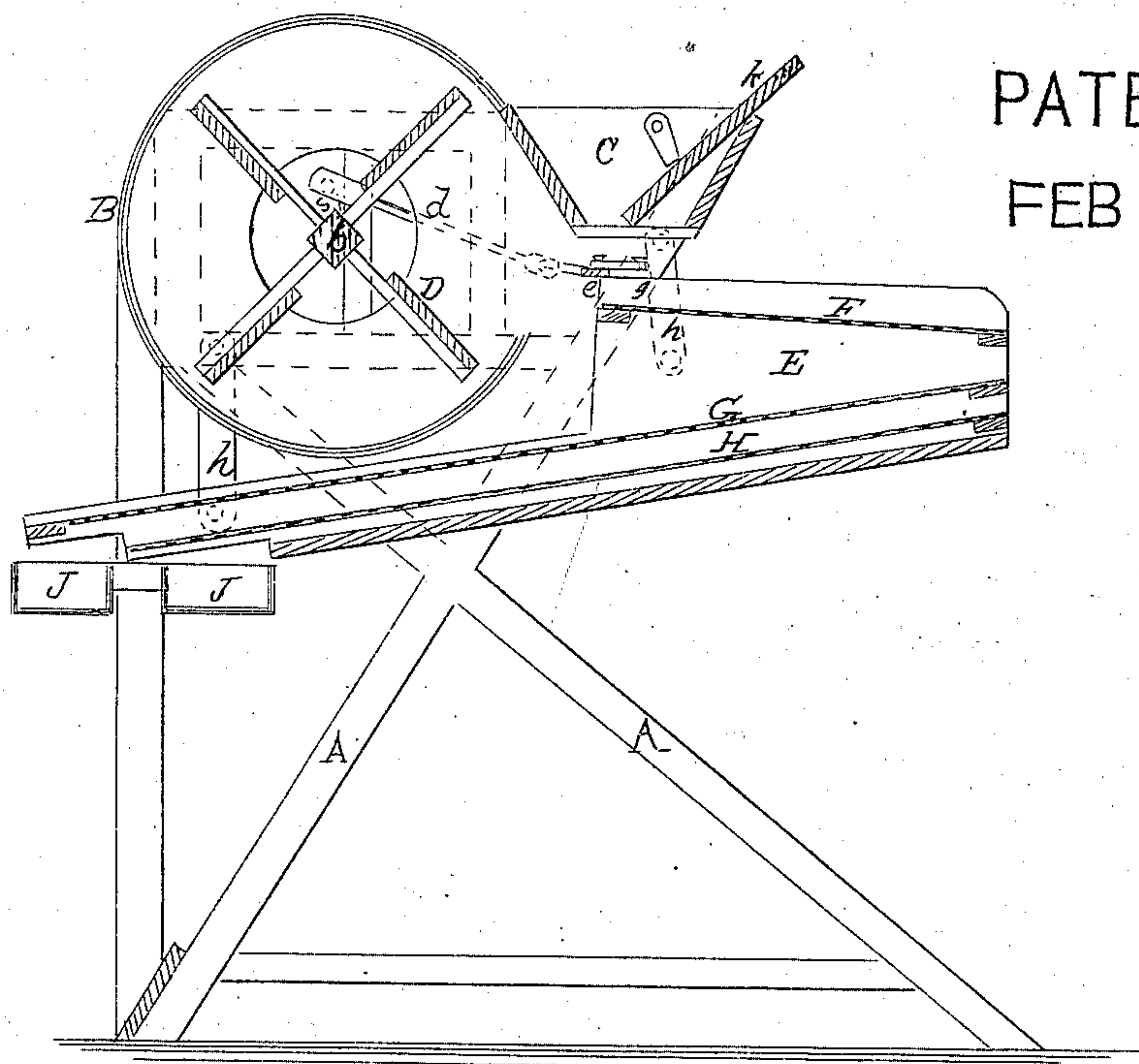


S.M.^c Millan. Fanning Mill.

74567

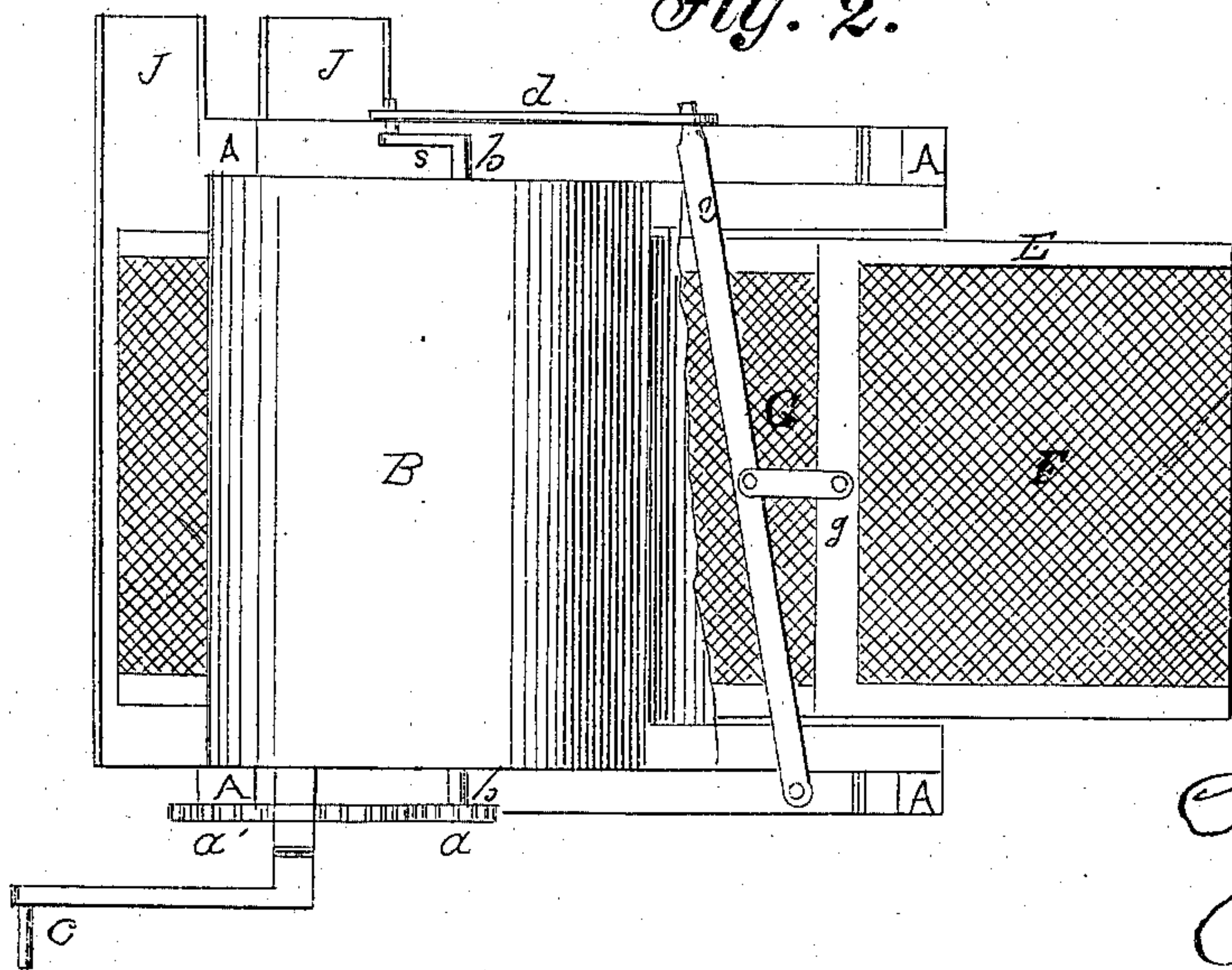
Fig. 1.



PATENTED

FEB 18 1868

Fig. 2.



Witnesses.

Thos. Insehe
Wm. Frewin

Inventor.

S. M.^c Millan
Per Wm. H. L.
Attorneys

United States Patent Office.

STEWART McMILLAN, OF FLETCHER, OHIO.

Letters Patent No. 74,567, dated February 18, 1868.

IMPROVEMENT IN FANNING-MILLS.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, STEWART McMILLAN, of Fletcher, in the county of Miami, and State of Ohio, have invented a new and useful Improvement in Fanning-Mills; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 represents a sectional side elevation of my improved fanning-mill.

Figure 2 represents a plan, with the hopper removed.

Similar letters of reference indicate corresponding parts.

This invention relates to an improvement in the construction and arrangement of fanning-mills for cleaning small grain and seeds, and consists in building the main side-frame of cross-bars, making it very cheap, light, and strong, and in combining the rotary fan and the sieves in such a manner that they work with great facility, by means of a crank-movement connection, as hereinafter more particularly described.

A A are side cross-frames, the lower ends of which form the legs of the machine, properly braced for the support of the fan-cylinder B, while the upper end of one of the bars of the frame on each side forms the support for the front side of the hopper C. The rotary fan D receives its motion from a pinion, *a*, on one end of its shaft *b*, gearing into a spur-wheel, *a'*, to which a crank, *c*, is attached. On the opposite side of the fan-shaft *b* is a short crank, *s*, connected with a connecting-rod, *d*, for giving reciprocating motion to the sieves. This motion is effected in a peculiar manner by a cross-piece, *e*, that is pivoted at one end on one side to the frame of the machine, and is attached at the other end to the front end of the connecting-rod *d*, while at the middle it is fastened to a cross-bar, *g*, on the shoe E, directly under the hopper. The shoe E is suspended at opposite ends on both sides of the machine by straps *h h*, which are made adjustable to raise or lower the sieves, as desired. F is the short screen, and G-H the long screens, made movable in the shoe, so that different sets may be used, coarser or finer, as may be required for separating seeds of different sizes. At the foot of the screens and the bottom board I, are provided inclined cross-troughs J for catching the different kinds of grains or seeds, and conducting them into measures or receivers. In the hopper C is a shifting-board, *k*, secured by buttons in any required position, to regulate the feed more or less. The operation of the machine is obvious.

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

1. The inclined shoe E, having the screens suspended from the cross-frame A by means of the pivoted bars *h*, and oscillated longitudinally from the crank *s* of the fan-shaft *b* by means of the short pivoted bar *g*, cross-bar *e*, and connecting-rod *d*, all constructed as described for the purpose specified.

2. The construction and arrangement of the cross-frame A, hopper C, oscillating pendant shoe E, boxes J J, drum B, fan D, pivoted lever *e*, connecting-rods *g d*, and crank *s*, as herein described for the purpose specified.

STEWART McMILLAN.

Witnesses:

JACOB GRIMP,

JAMES IRWIN.