

Seed Separator.

Patented June 20, 1865.



Inventor:

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UNITED STATES PATENT OFFICE.

JAMES B. WALLACE, OF FRANKLIN, OHIO.

IMPROVEMENT IN GRAIN AND GRASS-SEED SEPARATORS.

Specification forming part of Letters Patent No. 48,329, dated June 20, 1865.

To all whom it may concern:

Be it known that I, JAMES B. WALLACE, of Franklin, in the county of Warren and State of Ohio, have invented a new and Improved Grain and Grass-Seed Separator; 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, in which—

Figure 1 is a side elevation of my invention; Fig. 2, a plan or top view of my invention, the upper screen being partially broken away.

Similar letters of reference indicate like parts.

This invention consists in the employment or use of a series of screens connected together and arranged within a frame in such a manner that grass-seed and other foreign substances may be separated from grain, and the grass-seed also separated from the worthless foreign substances.

A B C represent three screens, which are placed one over the other and connected together by hooks and staples *a b*. These screens are inclined from a horizontal position, and the upper one, A, is the longest and the coarsest, being constructed of No. 8 wire. The central screen, B, is shorter than A and finer, being constructed of No. 9 wire. The lowest screen, C, is the shortest and the finest, being constructed of No. 16 wire. These screens are supported by a square shaft, D, which is between the screens A B, and the journals of this shaft have their bearings in blocks E E, which are fitted in slots made vertically in upright posts F F, one being at each side of the screens. The blocks E E have ratchet-shaped teeth *c* made in their outer surfaces to receive the upper ends of springs G G, the lower ends of which are secured to the posts F F. These springs G G support the blocks E E, and consequently the shaft D and the screens; and the

latter may be adjusted higher or lower, as may be desired, by raising or lowering the blocks E E. The front end of the upper screen, A, rests upon a cross-piece, *e*, at the upper ends of two uprights, H H, which are connected to the upright posts F F by horizontal bars *d d*. The upper ends of the posts F F are connected by a cross-piece, I, to which the hopper J is attached. The screens are subjected to the proper shake motion by turning the shaft D, which may be done through the medium of a crank attached to one of the journals of the former.

The grain passes down from the hopper J upon the elevated part of the upper screen, A, which is sufficiently coarse to let everything through but the wheat, which is discharged off from the lower or depressed end of said screen. The central screen, B, receives the impurities which pass through A, and the large cockle and defective grains of wheat do not pass through B, and are consequently discharged from the lower or depressed end of the same into any proper receptacle. The screen C separates the grass-seed from the other coarser or larger articles, the grass-seed passing through C and the other impurities falling from the lower or depressed end of the same.

The device may be constructed at a very moderate cost. It has been practically tested and operates well.

I claim as new and desire to secure by Letters Patent—

The employment or use of a series of screens connected together, as shown, and suspended within a suitable framing on a square shaft, which is supported by adjustable bearings or blocks E E, all arranged to operate in the manner substantially as and for the purpose herein set forth.

JAMES B. WALLACE.

Witnesses:

R. S. LOCKWOOD,
JAMES HARLEY.