

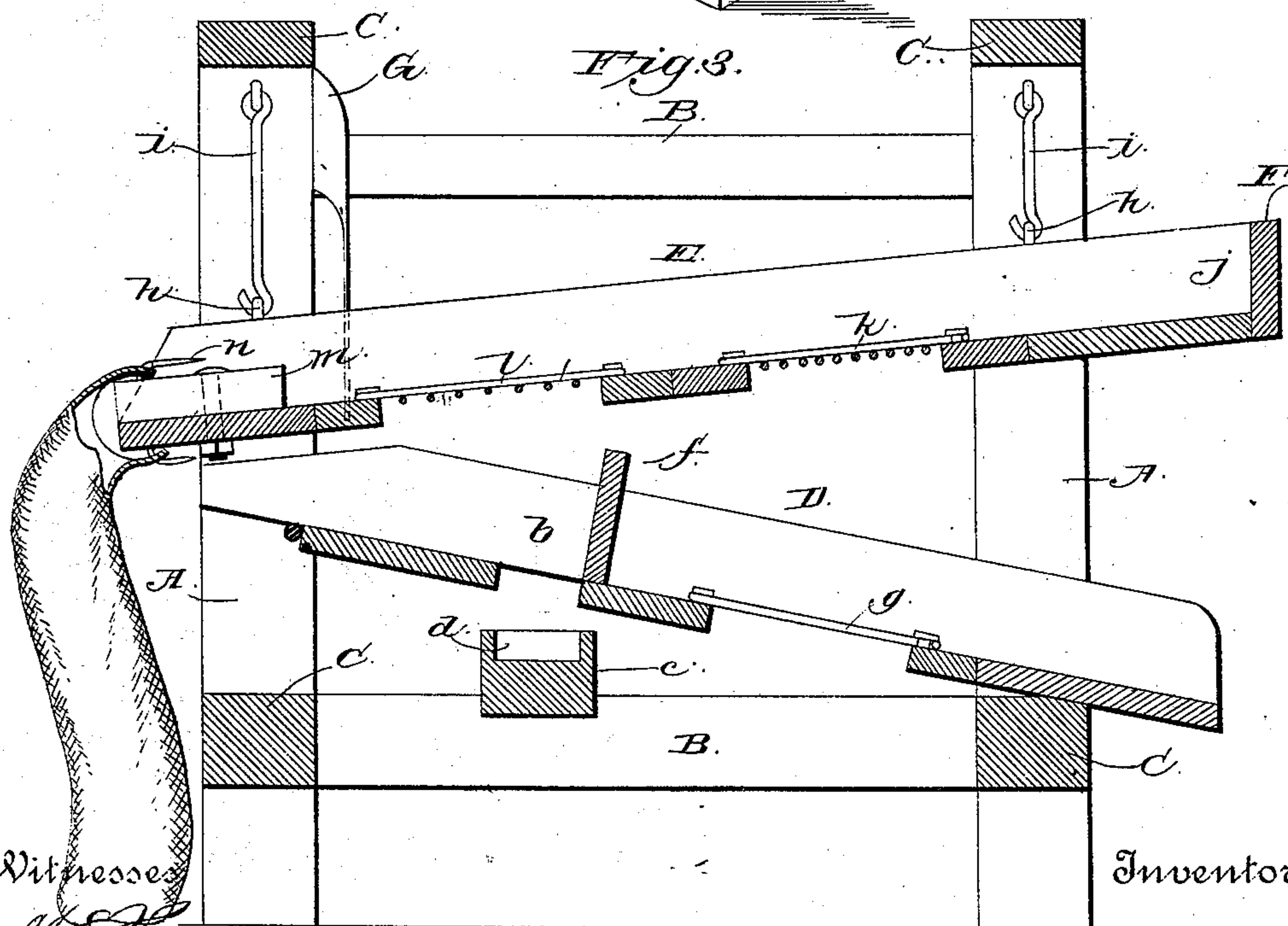
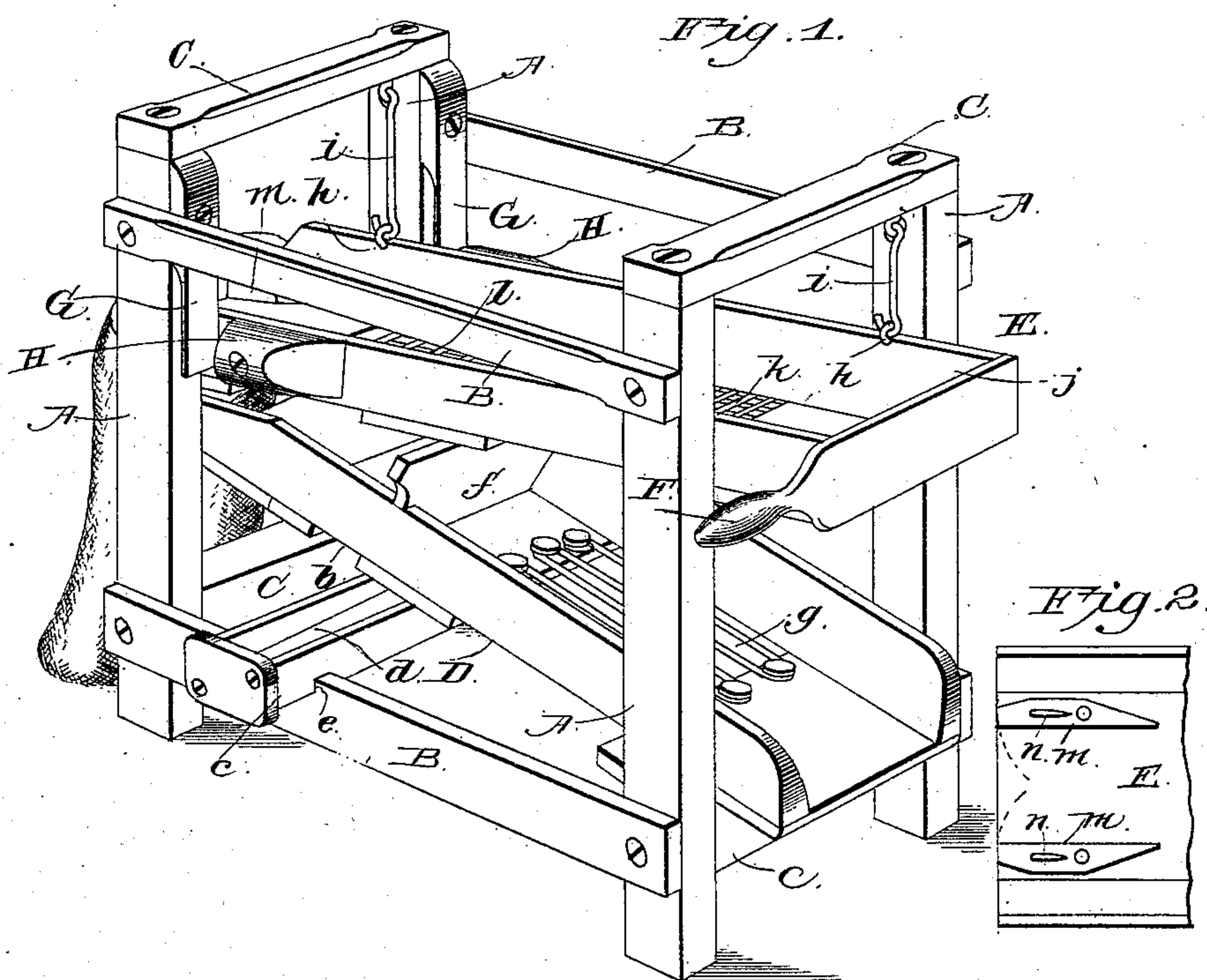
(No Model.)

J. H. NOWVIOCH.

POTATO SEPARATOR.

No. 393,848.

Patented Dec. 4, 1888.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN H. NOWVIOCH, OF MONTGOMERY'S FERRY, PENNSYLVANIA.

POTATO-SEPARATOR.

SPECIFICATION forming part of Letters Patent No. 393,848, dated December 4, 1888.

Application filed February 28, 1888. Serial No. 265,535. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. NOWVIOCH, a citizen of the United States, residing at Montgomery's Ferry, in the county of Perry and State of Pennsylvania, have invented a new and useful Improvement in Potato-Separators, of which the following is a specification.

My invention relates to potato-separators; and it consists in the improved construction hereinafter described, whereby a simple, efficient, and durable construction is provided that will perfectly separate the potatoes from dirt and foreign matter and assort the potatoes into their several grades.

In the accompanying drawings, forming part of this specification, Figure 1 is a perspective view of a potato-separator embodying my improvements. Fig. 2 is a detail plan view of a portion of the same, and Fig. 3 is a longitudinal vertical section.

As shown, the supporting-frame of the machine consists of the four corner uprights, A, which are connected together by upper and lower horizontal side bars, B B, and upper and lower end bars, C C.

D refers to a rectangular extended frame, which is inclined, as shown in Figs. 1 and 3, so that its lower end rests upon one of the lower end bars, C. This frame D is provided at its upper end portion with a closed bottom portion having a transverse discharge-opening, *b*. A removable chute, *c*, is provided with an inclined bottom, *d*, and rests transversely on the lower side bars, B B, beneath the opening *b*, so that its discharge end will rest in a notch, *e*, in said side bar, B, and prevent the chute from becoming displaced. A vertical transverse partition, *f*, is located in said frame D and separates it into an upper and lower portion. The lower is provided with a wire screen, *g*, and the said frame is open at its lower end to form a discharge-outlet therefor.

Above the frame D and horizontally located is a second frame, E, which is provided with metallic loops *h*, engaged by the lower hooked ends of links *i*, attached to the inner sides of the uprights. These links serve to pivotally suspend said frame, so that it may be easily vibrated. The closed end *j* projects beyond the frame at one end, where it is provided with a handle, F. This frame E is provided with two screens, *k l*, the former being located

nearest the handle and being of a finer mesh than the latter. Depending spring-arms G are secured on two of the uprights A, as shown in Fig. 1, so that their depending free ends will be in the line of travel of blocks H, secured on the sides of the frame E. The discharge end of the frame E is provided with two pivoted blocks, *m m*, which are located in said discharge end, and are each provided with hooks *n*, for the engagement of the bag, which is suspended from said open end.

In operation the potatoes are fed into the frame E at the handle end of the same, and as said frame is vibrated the dirt and other foreign matter pass through the screen *k* onto the screen *g* of the frame below. The dirt passes through the latter screen and any young or small potatoes are discharged from said frame at the lower open end of the same. The potatoes pass from the screen *k* onto the screen *l*, at which point the mesh of the screen is such that a certain grade of potatoes pass through to the trough beneath, through the opening in the bottom of which they pass to the chute beneath, and by which they are discharged from the side of the machine.

The potatoes that do not pass through the screen *l* are of first grade, and are discharged from the frame E into the bag secured at the discharge end of the same. The blocks *m m* serve as guides to direct the potatoes into the bag.

From the preceding description it will be seen that the machine set forth is of exceedingly simple and effective construction, and that it will properly separate the potatoes into their several grades.

Having described my invention, I claim—

The combination of the main frame, the vibrating frame provided with a screen suspended therein, the blocks *m*, pivoted on the upper side of the bottom of said vibrating frame, the hooks secured in the upper sides of said blocks, and the hooks secured to the under side of the bottom of the vibrating frame, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOHN H. NOWVIOCH.

Witnesses:

G. W. ZINN,
DANIEL BOWERS.