

T. HOWELL.
Hand Seeder.

No. 103,464.

Patented May 24, 1870.

Fig 1

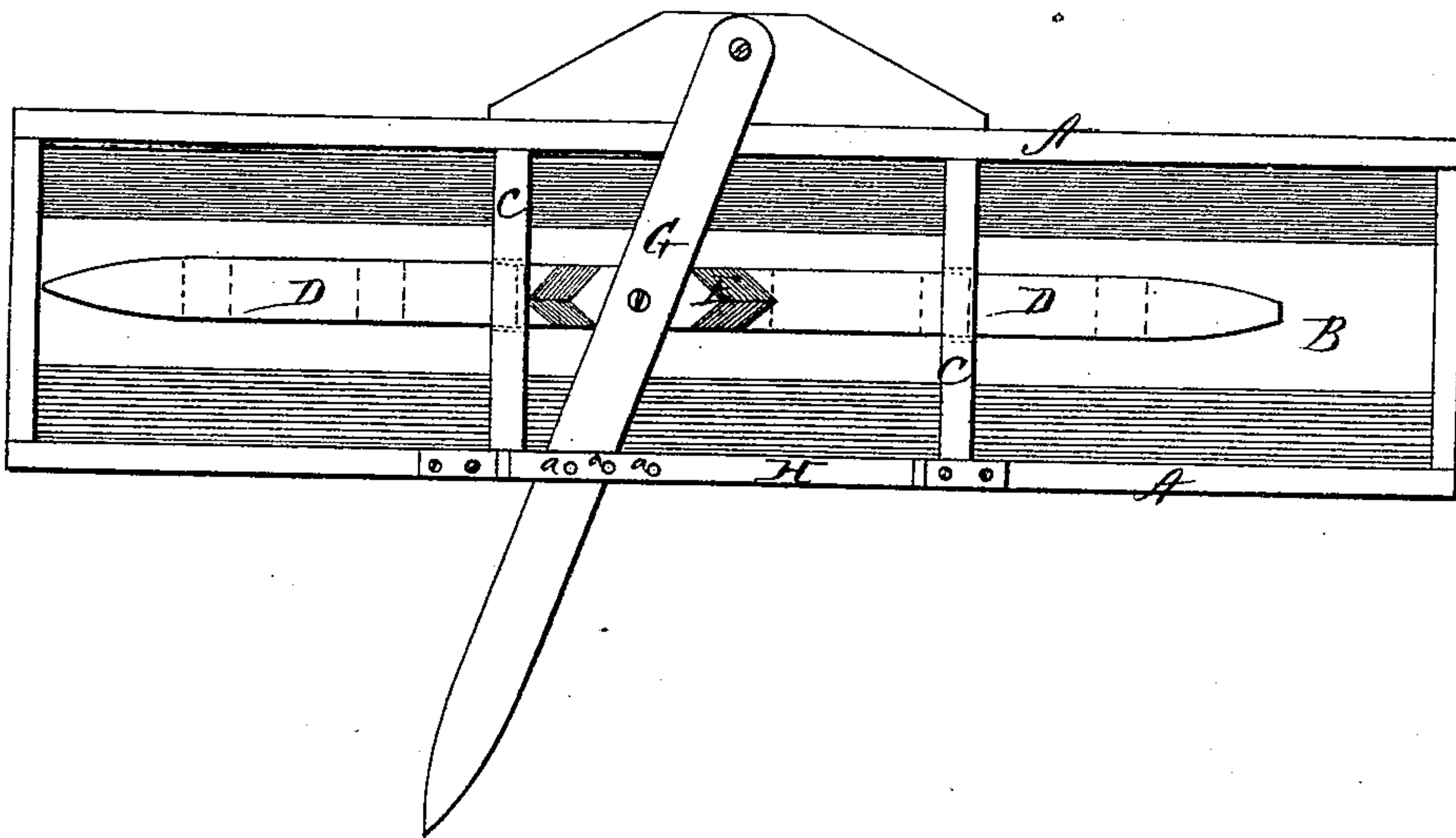


Fig 2

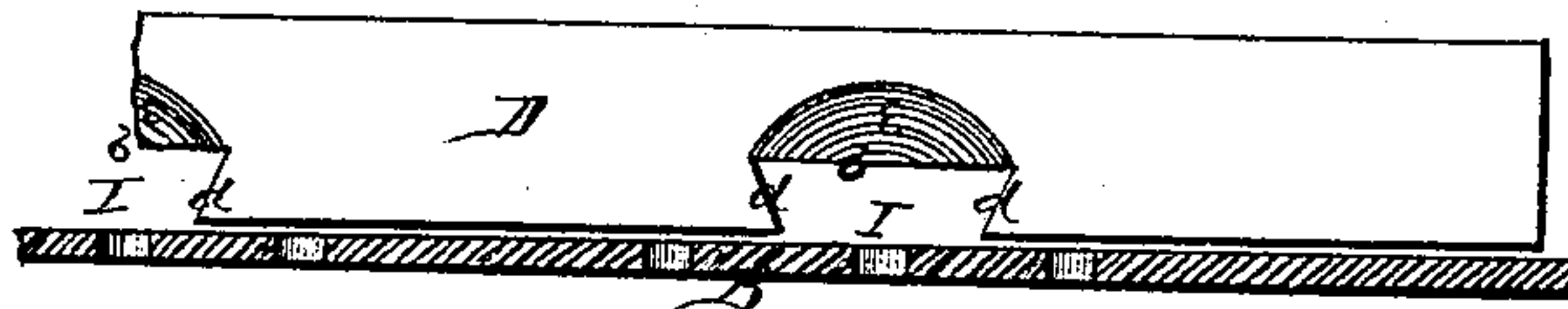


Fig. 3.



Witnesses

Harry King.
C. L. Overb.

Inventor.

Thomas Howell
per Alexander Thayer

Atty.

United States Patent Office.

THOMAS HOWELL, OF MORGANTOWN, WEST VIRGINIA.

Letters Patent No. 103,464, dated May 24, 1870.

IMPROVEMENT IN SEED-SOWERS.

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, THOMAS HOWELL, of Morgantown, in the county of Monongalia and in the State of West Virginia, have invented certain new and useful Improvements in Seed-Sowers; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the formation of the notches on the rod or slide of a "hand seed-sower," in such a manner that the chaff contained in the seed will be forced away from the holes in the bottom, and out of the notches in the rod, as will be hereinafter set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a plan view of the entire seed-sower;

Figure 2 is a side view of a portion of the rod or slide, with a longitudinal vertical section of the bottom; and

Figure 3 is a bottom view of a portion of the slide.

A represents the box, provided with a perforated bottom, B, through which the seed is distributed.

This box is, by means of two partitions, C C, divided into three compartments, and upon the bottom B is placed the rod or slide D, moving in slots in the lower ends of said partitions.

Upon the slide D, in the center compartment, is a standard, E, on the upper end of which is pivoted a lever, G.

One end of this lever is also pivoted on the front edge of the box A, and its rear end, forming a handle, passes under a guide, H, on the rear edge of the box. By moving this lever from side to side, the slide D obtains the required motion to distribute the seed through the perforations in the bottom B.

In the guide-bar H are holes *a a*, in either one of which a pin may be inserted, so as to increase or diminish the distance the slide D may be moved.

In the under side of the slide D is a series of notches, I I, cut in the following manner:

First, a square edge, *b*, extending about one-eighth of an inch in the rod, for the purpose of carrying a column of seed parallel with the holes in the bottom B, said holes or perforations being, as usual, in a straight line.

On each side of the notch there is cut a slant or bevel, *d*, for the purpose of running under the seed, and forcing it up into the circular cuts *e e*, one on each side of the rod. These circular cuts have a bearing on the seed, outward and upward, and work, in connection with the bevels *d*, to force the chaff to escape out of the notch.

The chaff, being lighter than the seed, will rise to the top, but, in the common seed-sowers, the square face of the notch will prevent its escape. My circular cuts not only cut out the square face at the top, to prevent the collection of chaff, but they force it to escape.

It will readily be understood that, while in the old style seed-sowers, having square notches, the right-and-left motion of the slide causes a collection, right in the center of the notch, of the chaff, and, said notch being about three-quarters of an inch wide, it cannot escape; that my notch, being formed as above described, will carry a square column at the bottom, the bevels will run under the collection of seed in the center of the notch, forcing it upward, and the circular cuts will force it clear of the rod.

Having thus fully described my invention,

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

In a seed-sower, the rod or slide D, when provided with notches I I, formed as described, having a square edge, *b*, bevels *d d*, and circular cuts *e e*, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 31st day of January, 1870.

THOMAS HOWELL.

Witnesses:

W. T. KERN,
URIAH RIDER.