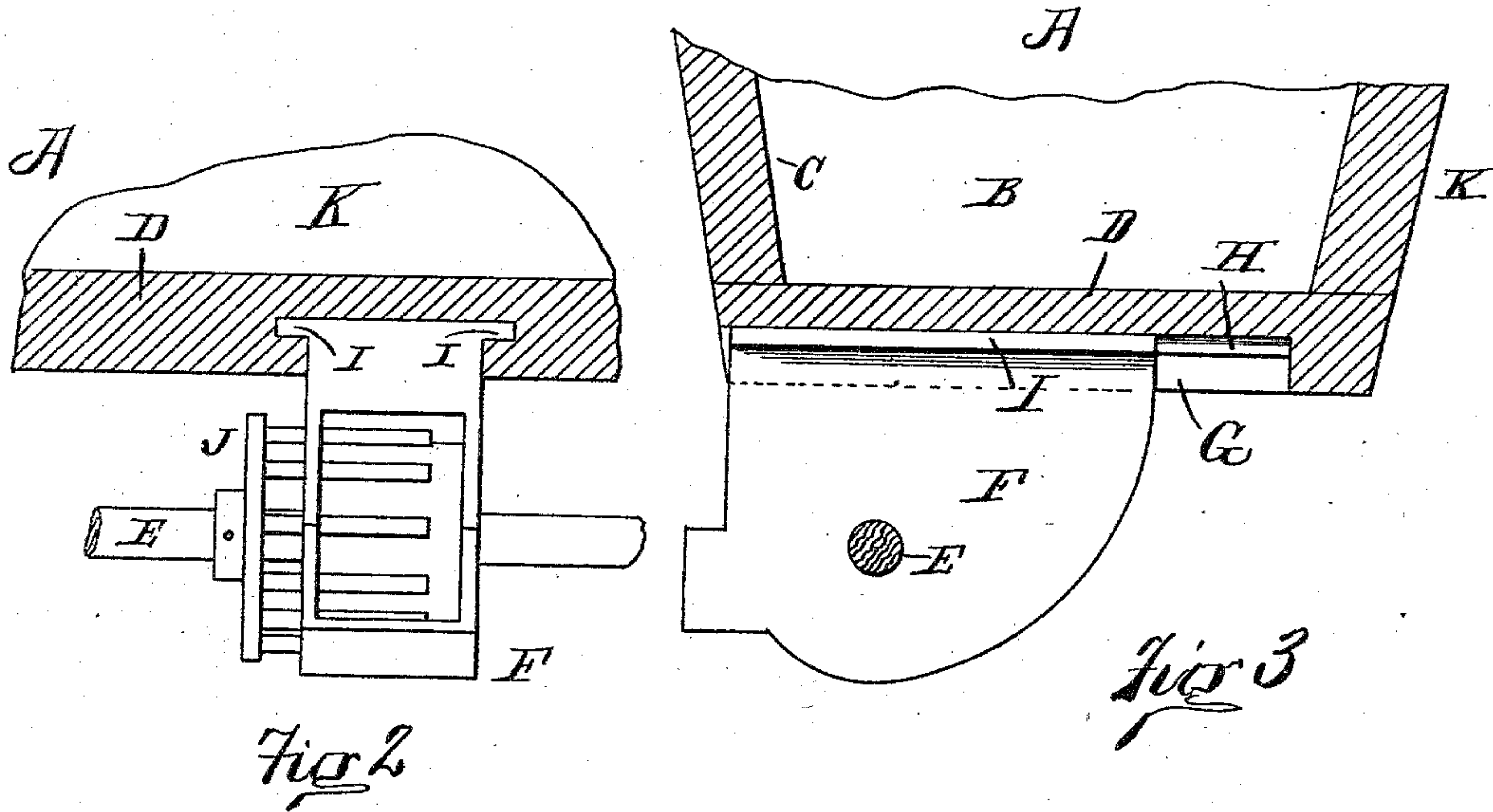
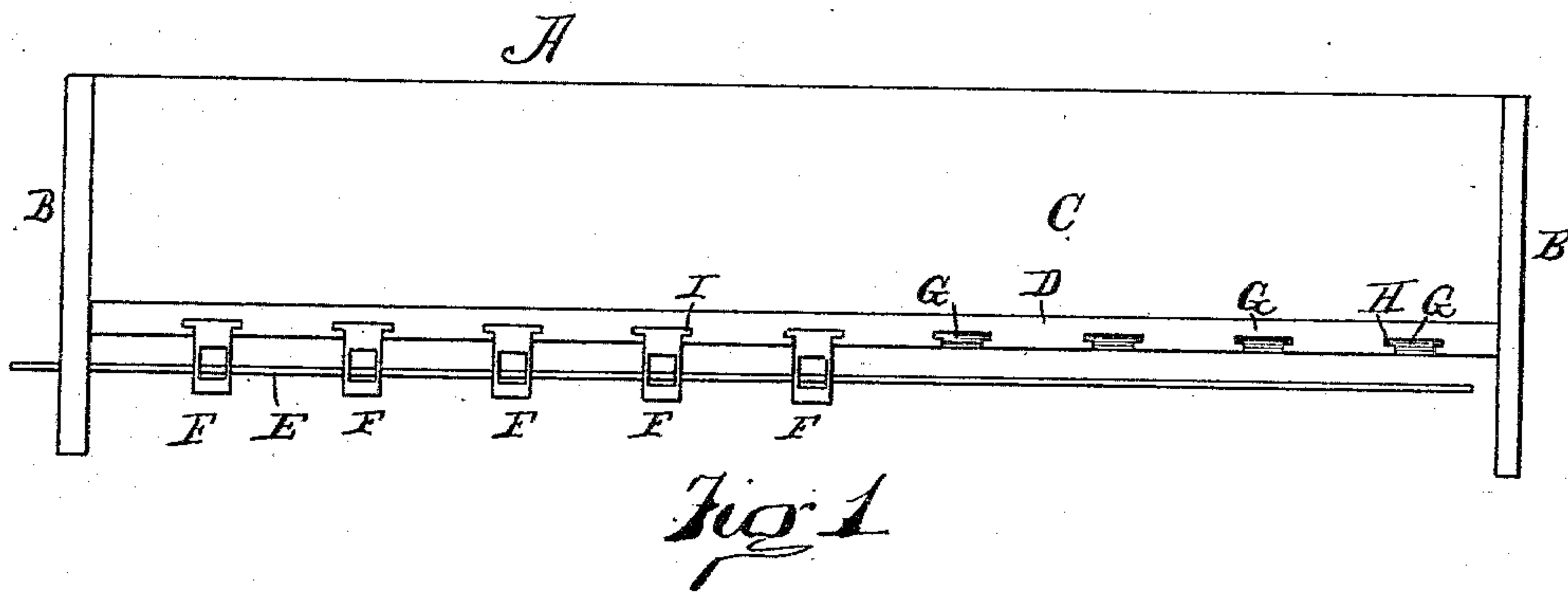


(No Model.)

J. L. RITER.  
SEEDING MACHINE.

No. 274,518.

Patented Mar. 27, 1883.



WITNESSES:

*John H. Moore*  
*Sam B. Stace*

*John S. Riter* INVENTOR  
*by James W. See* ATTORNEY

# UNITED STATES PATENT OFFICE.

JOHN L. RITER, OF BROWNSVILLE, INDIANA.

## SEEDING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 274,518, dated March 27, 1883.

Application filed October 13, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN L. RITER, of  
Brownsville, Union county, Indiana, have in-  
vented certain new and useful Improvements  
5 in Seeding-Machines, of which the following is  
a specification.

In the accompanying drawings, Figure 1  
represents the seed-box of a seeding-machine,  
shown in rear elevation; Fig. 2, a vertical  
10 longitudinal section of the same at the seat of  
one of the seed-cups, and Fig. 3 a vertical trans-  
verse section at same point.

This invention relates to the means for at-  
taching the series of seed-cups to the bottom  
15 of the seed-box, as hereinafter set forth.

A is the seed-box; B B, the end pieces of  
the seed-box; C and K, the sides of the seed-  
box; D, the bottom of the seed-box; E, the  
longitudinal shaft for operating the seed-  
20 wheels; F, the seed-cups to receive the seed-  
wheels; G, transverse grooves in the bottom  
of the seed-box, one at each seed-cup; H, a  
widened portion of the grooves at their tops,  
giving them a T form; I, flanges projecting  
25 from the sides of the seed-cups; J, the seed-  
wheels.

The seed-cups slide into the grooves, and are  
retained by the flanges in an obvious manner.

The cups may be adjusted transversely to the  
seed-box into true alignment with the shaft. 30  
No skill is required to set the cups into align-  
ment. No screws are required, and the  
grooves being susceptible of being machine-  
made, the device is much cheaper than the  
usual screwed attachment.

The grooves may be in dovetail form, and 35  
the flanges I constructed to suit.

Seeding-machines have been devised in  
which the seed-cups are partly supported by  
the projection of a rear flange in a grooved 40  
piece beneath the seed-box, and also by means  
of flanges seating in dovetail sockets secured  
separately beneath the seed-box. I do not  
claim any such devices as of my invention.

I claim as my invention— 45

In a seeding-machine, the combination of a  
seed-wheel shaft, a series of seed-cups having  
side flanges, and a seed-box having a perfo-  
rated wooden bottom provided with transverse  
grooves cut in its lower face to engage said 50  
side flanges and support the seed-cups, sub-  
stantially as set forth.

JOHN L. RITER.

Witnesses:

JAMES W. SEE,  
ISRAEL WILLIAMS.