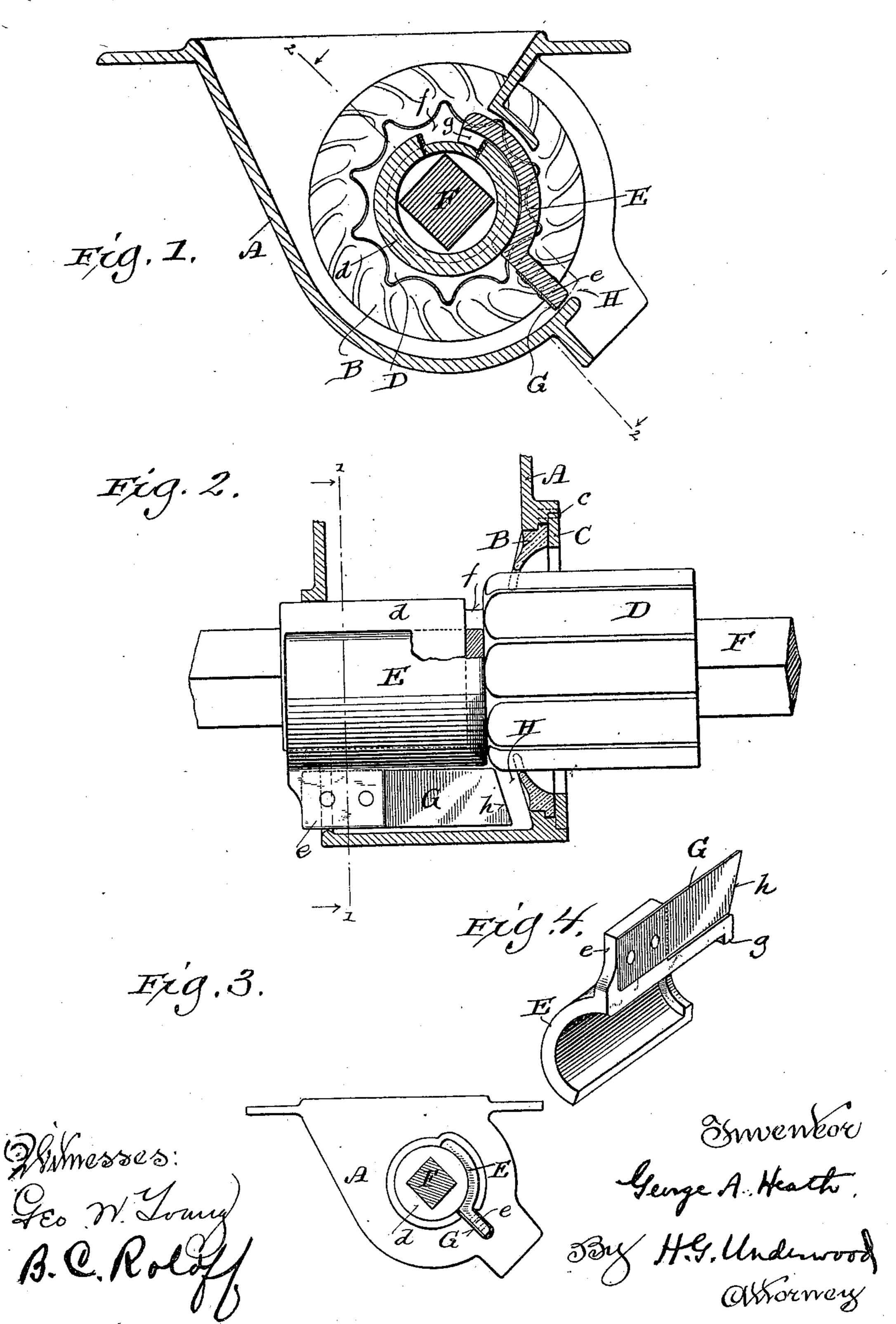
No. 624,021.

G. A. HEATH. SEED CUP.

(Application filed Mar. 15, 1899.)

(No Model.)



United States Patent Office.

GEORGE A. HEATH, OF WAUPUN, WISCONSIN.

SEED-CUP.

SPECIFICATION forming part of Letters Patent No. 624,021, dated May 2, 1899.

Application filed March 15, 1899. Serial No. 709, 125. (No model.)

To all whom it may concern:

Be it known that I, GEORGE A. HEATH, a citizen of the United States, and a resident of Waupun, in the county of Dodge and State 5 of Wisconsin, have invented certain new and useful Improvements in Seed-Cups; and I do hereby declare that the following is a full,

clear, and exact description thereof.

My invention relates to the seed-cups of 10 seeders and drills, with especial reference to such as are employed in sowing peas and similar seed; and it consists in certain peculiarities of construction and combination of parts whereby said seed is adapted to be sowed with-15 out being broken or injured, all as will be fully set forth hereinafter and subsequently claimed.

In the drawings, Figure 1 is a vertical sectional view, on the line 11 of Fig. 2, of a seed-20 cup embodying my present invention. Fig. 2 is a view of said cup, partly in elevation and partly in section, on the line 2 2 of Fig. 1. Fig. 3 is a view in end elevation of said device on a reduced scale, and Fig. 4 is a per-25 spective view of my improved feed-gate removed from the seed-cup and inverted.

Referring to the drawings, A represents the seed-cup, formed, preferably, of cast or malleable metal. The sides of this cup have open-30 ings therethrough, that on one side being a circular shouldered opening to receive a revoluble annular disk B, held in place by a ring C and suitable keys or pins c. The interior of this annular disk B is corrugated or fluted to 35 correspond to and receive the fluted feed-cylinder D, while the opening through the opposite side of the cup is also circular, but of less diameter than the first-named opening, to receive the smooth or non-fluted end d of the 40 cylinder D, the said smaller opening being segmentally enlarged and having a radial extension to receive the feed-gate E e. The cylinder D d has a square bore therethrough for the reception of the cylinder-shaft F, which 45 latter is rigidly secured to said cylinder D d, the latter having a circumferential groove f, located between the fluted and smooth portions of its periphery, to receive a lug g on the inner end of the portion E of the feed-gate, 50 while to the part e of said gate there is se-

cured a tongue G, consisting of a flat spring

or yielding and elastic strip of metal, having I

an oblique free end h corresponding to the inner inclination of the adjacent face of the annular disk B, whereby said cylinder D d 55 may be moved longitudinally by its shaft F through the seed-cup A back and forth, the spring G of the feed-gate thus closing the outlet of the seed-cup or opening it to the distance required in any case, according to the 60 quantity of seed to be sowed to the acre.

Heretofore seed-cups of the general class herein illustrated and described have been used employing a fluted feed-cylinder and a sliding feed-gate; but said gate being rigid 65 and unyielding the result has been that when peas, beans, corn, and similar seed were attempted to be sowed therewith a large proportion of the seed was caught between the fluted cylinder and the end of the feed-gate 70 and split, broken, and rendered worthless, so that the said devices had to be abandoned; but with my improved device when the seed is brought up to the outlet H by the fluted cylinder D the adjacent end of the gate-spring G 75 will yield and vibrate, thus freeing the seed and enabling the same to be sowed freely and without injury.

Having thus described my invention, what I claim as new, and desire to secure by Letters 80

Patent, is—

1. In a seed-cup for seeders and drills, the combination with a revoluble feed-cylinder of a longitudinally-movable yielding vibratory feed-gate.

2. The combination with a seed-cup having openings through the opposite sides thereof and a suitable outlet, of a longitudinally-movable and revoluble feed-cylinder having a fluted and a smooth cylindrical portion, and a 90 feed-gate connected to said feed-cylinder to move longitudinally therewith but incapable of revolution and having a yielding vibratory tongue secured thereto and projecting therefrom across said outlet.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

GEORGE A. HEATH.

Witnesses:

H. G. UNDERWOOD,

B. C. ROLOFF.