

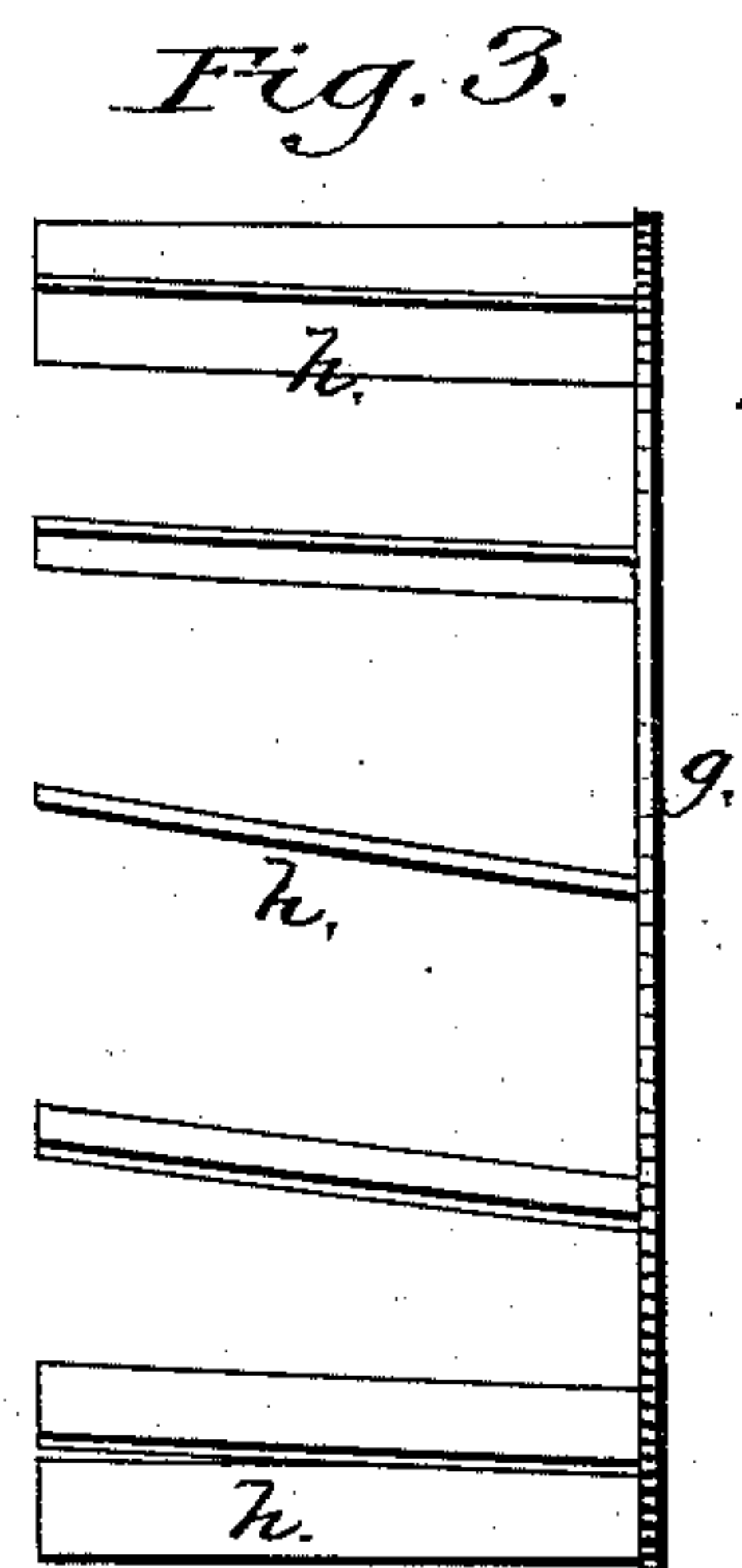
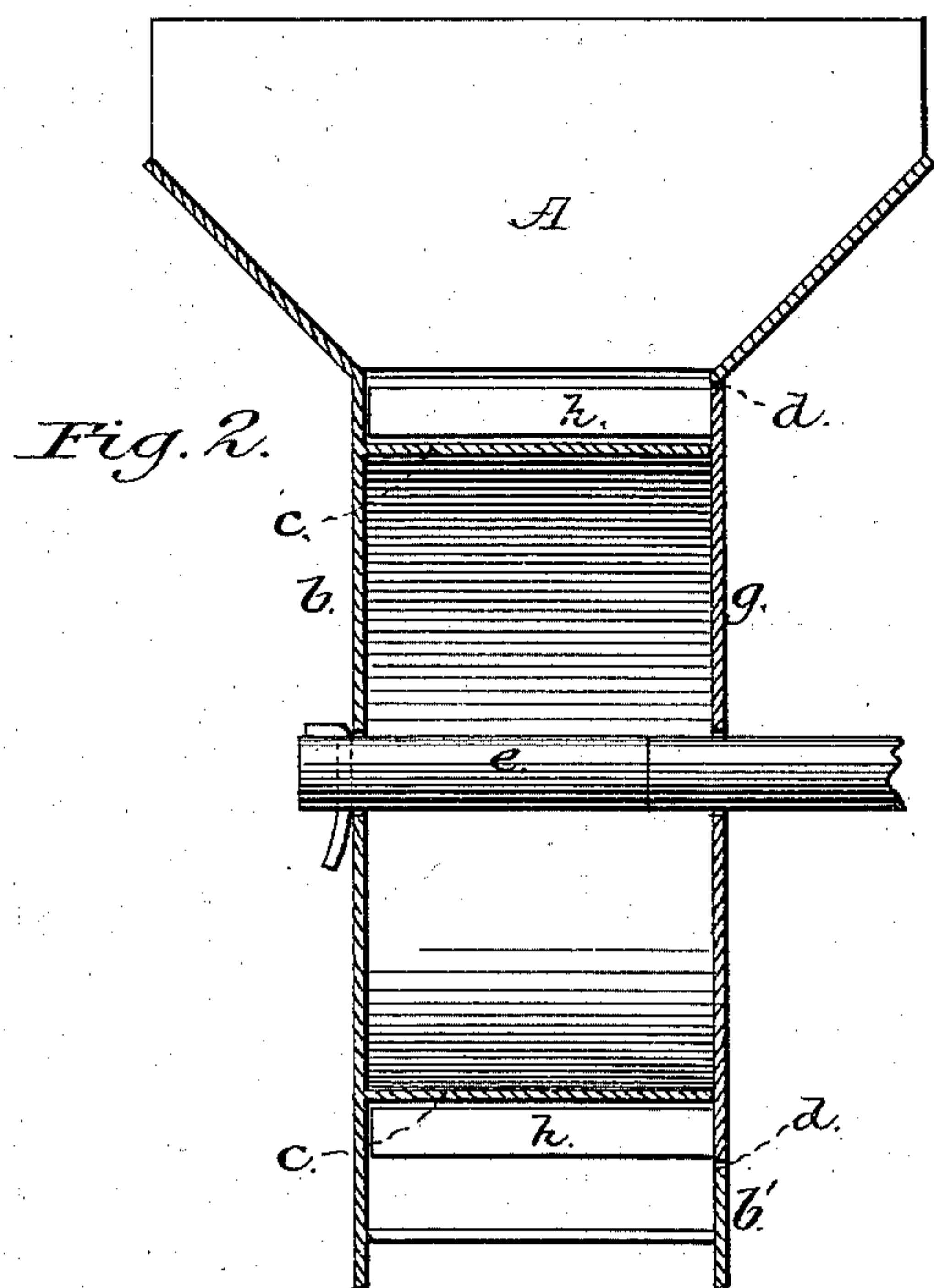
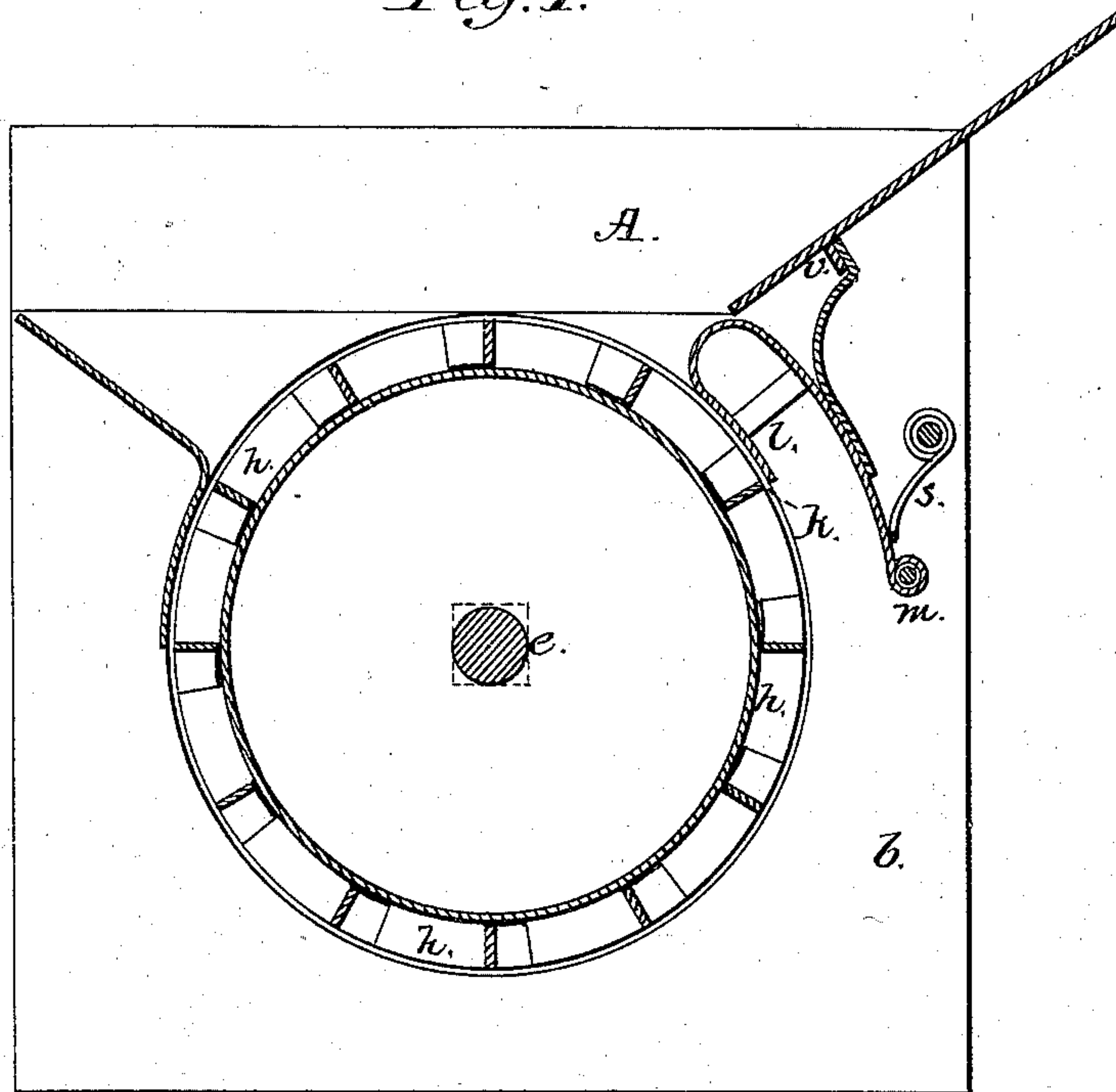
(No Model.)

H. C. PRATT.
GRAIN DRILL ATTACHMENT.

No. 255,668.

Patented Mar. 28, 1882.

Fig. 1.



WITNESSES

John A. Ellis.
Philip Levasi.

INVENTOR

H. C. Pratt,
by Anderson & Smith
his ATTORNEYS

UNITED STATES PATENT OFFICE.

HENRY C. PRATT, OF CANANDAIGUA, NEW YORK.

GRAIN-DRILL ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 255,668, dated March 28, 1882.

Application filed January 7, 1882. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. PRATT, a citizen of the United States, resident at Canandaigua, in the county of Ontario and State of New York, have invented a new and valuable Improvement in Grain-Drill Attachments; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a vertical central section. Fig. 2 is a vertical cross-section, and Fig. 3 is a detail view of the disk and arms.

This invention has relation to attachments to grain-drills for distributing fertilizing material; and it consists in the construction and novel arrangement of the cylinder-bearing laterally secured to the hopper-wall, the opening in the opposite hopper-wall, the rotary disk having oblique distributing-arms passing around the cylinder-bearing, and the automatically-springing throat-plate or bearing under which the arms of the disk pass, all as hereinafter set forth.

In the accompanying drawings, the letter A designates the hopper, having downward vertical extensions b b' of its walls. One of these lateral walls, b , is provided with a fixed cylinder-bearing, c ; and the other wall, b' , is formed with a circular opening, d , of somewhat larger diameter than the cylinder-bearing. In the center of the cylinder-bearing a journal-seat is formed for the transverse shaft e , to which the rotary disk g is keyed or otherwise fastened. This disk is designed to close the circular side opening, d , in the hopper-wall, and is provided with a circular series of distributing-arms, h , extending from its marginal portion over the cylinder in the direction of the opposite wall, b , of the hopper. These arms are arranged a

little obliquely, being inclined forward as they extend from the disk g over the cylinder, so that they will carry the fertilizing material toward and through the throat k of the hopper and distribute it evenly. As the cylinder base or bearing c in the bottom of the hopper is fixed and the arms h move over its surface in a circular manner, it is evident that there will be no clogging by the accumulation of damp phosphates between the arms. As these arms pass around the cylinder they carry the fertilizer through the throat k , under the throat-plate or bearing l , which is pivoted at m , and is provided with an exterior bearing-spring, s , which keeps it down in proper position in the throat. A stop, v , prevents the throat-plate l from interfering with the movement of the arms h as they pass under it; but should a stone, stick, or other hard obstruction be carried into the throat by the arms the plate l will rise automatically and allow it to pass through without breaking the arms.

Each distributing-tube of the drill is designed to be provided with one of these fertilizer-distributors, and the rotary disks are all to be secured on the same shaft e and run thereby.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

In a grain-drill attachment, the fixed cylinder-bearing c , the opening d in the hopper-wall opposite said bearing, the lateral rotary disk g , having the oblique distributing-arms h passing around the cylinder-bearing, and the automatic throat-plate l , substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in presence of two witnesses.

HENRY C. PRATT.

Witnesses:

M. B. PRATT,
A. C. PRATT.