

(No Model.)

G. R. LEWIS.
FERTILIZER DISTRIBUTER.

No. 272,716.

Patented Feb. 20, 1883.

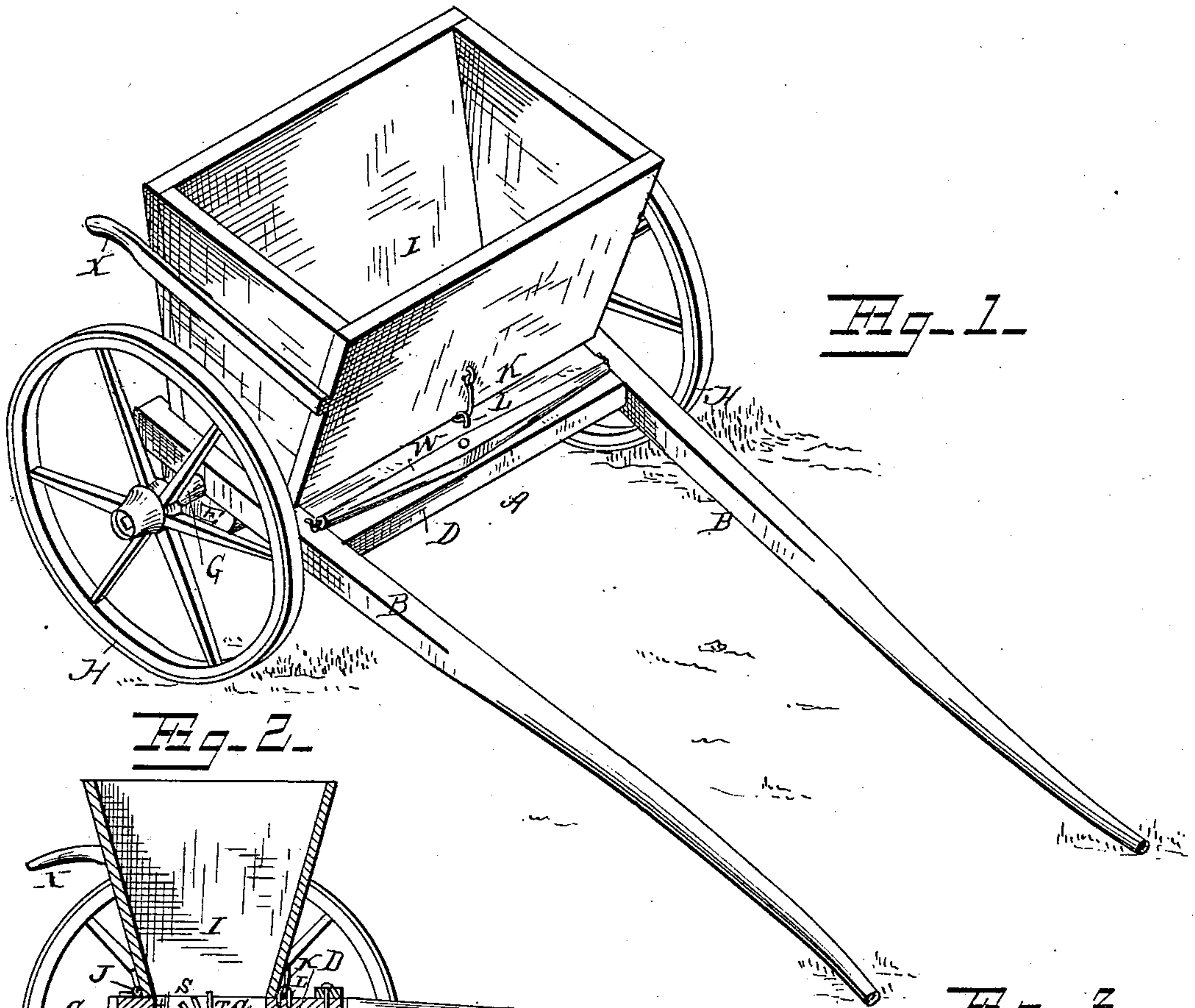


Fig. 1.

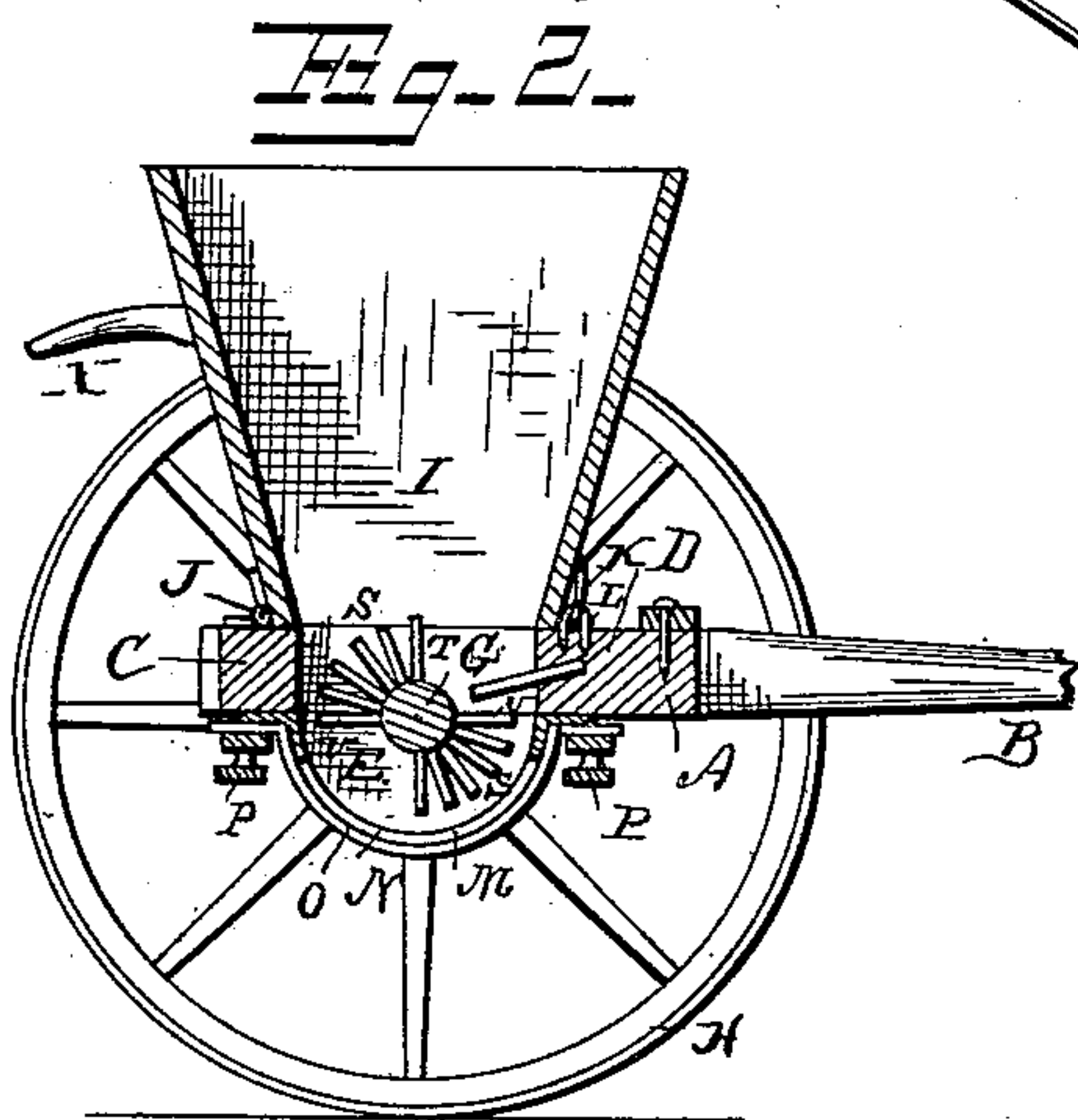


Fig. 2.

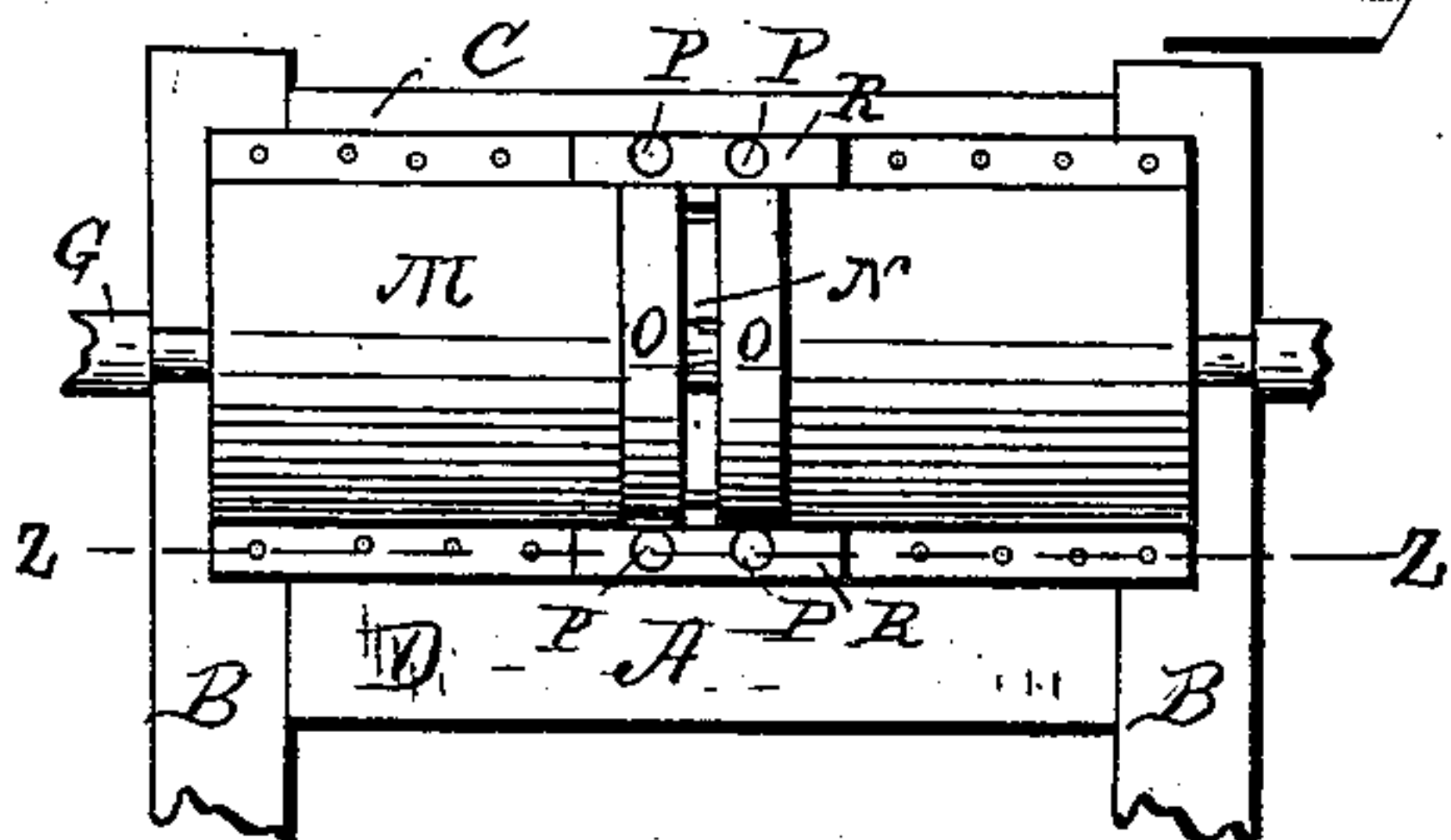


Fig. 4.

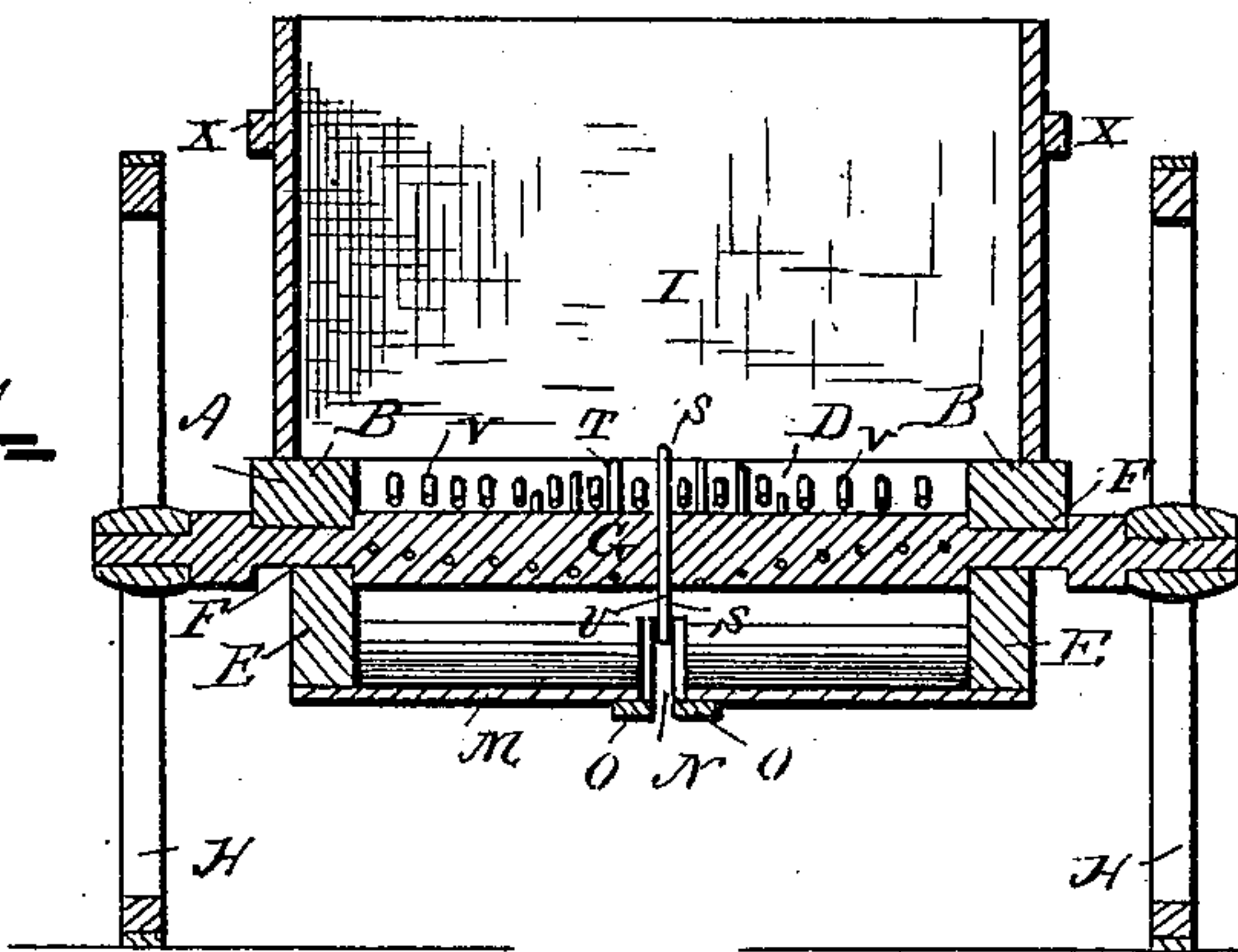


Fig. 3.

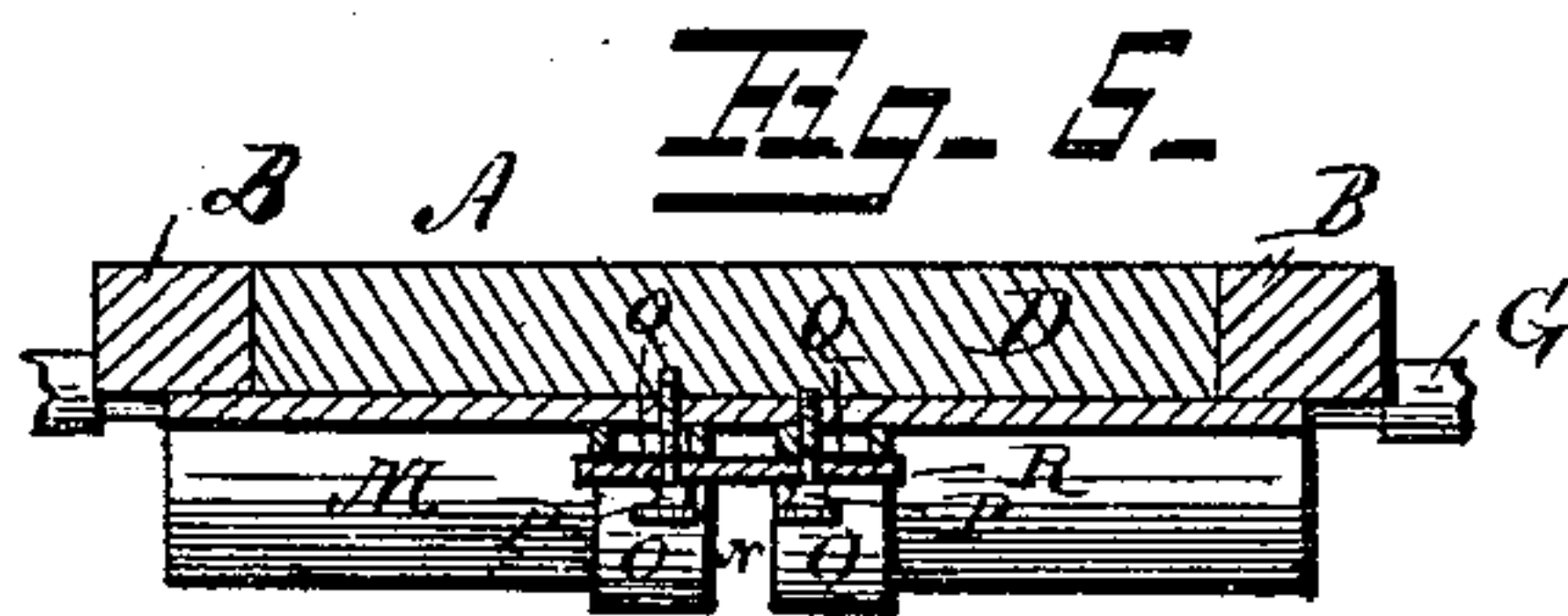


Fig. 5.

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GEORGE R. LEWIS, OF FAYETTEVILLE, GEORGIA.

FERTILIZER-DISTRIBUTER.

SPECIFICATION forming part of Letters Patent No. 272,716, dated February 20, 1883.

Application filed October 20, 1882. (No model.)

To all whom it may concern:

Be it known that I, GEORGE R. LEWIS, a citizen of the United States, residing at Fayetteville, in the county of Fayette and State of Georgia, have invented a new and useful Fertilizer-Distributor, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to that class of machines that can be used as a cotton-planter or fertilizer-distributor; and it has for its object to provide a simple, inexpensive, and efficient machine.

In the drawings, Figure 1 is a perspective view of my improved machine. Fig. 2 is a vertical longitudinal sectional view thereof. Fig. 3 is a vertical transverse sectional view through the axle. Fig. 4 is a bottom view of the machine, and Fig. 5 is a vertical sectional view on the line *z z*, Fig. 4.

Referring to the drawings, A designates the frame of the machine, which comprises the thills B B, a rear cross-piece, C, and another cross-piece, D, some distance in front of the latter. The thills B B are provided with side pieces, E E, on their under-sides, between the cross pieces C D, in which are formed bearings F F, for the transverse rotary axle G, having the supporting-wheels H H fixed on its ends. On the frame A, between the wheels H H, is arranged the hopper I, hinged to said frame at its rear edge, as at J J, and provided with a hook, K, or other fastening, engaging an eye, L, on the frame to secure the hopper in position. The bottom of hopper I is formed by a plate, M, curved downwardly and secured under the frame, so as to inclose the space between pieces C D, the ends being closed by side pieces, E E. Bottom plate, M, is provided with a slot, N, longitudinally disposed in relation to the machine and forming the seed-opening. The width of this slot is regulated by a plate, O, arranged at each side thereof, said plates O O being laterally adjustable by means of screws P, working in slots Q in the ends of the plates and through strips R. The said strips R R consist of plates transversely arranged across the ends of the pair of plates O O, and forming washers. On the axle G, between the thills and inside the hopper, are

arranged two series, S S, of feeding-teeth T, the series being arranged on opposite sides of the axle, and each consisting of a row of teeth extending from each end and arranged in segmental contour at the center or middle of the row. At the center of axle G, above the seed-opening N, the axle is provided with a series of auxiliary radial feeding-teeth, U, and all the teeth on the axle work between clearing-pins V, extending from the rear edge of cross-piece D.

This machine is adapted to be drawn by a horse, the single-tree W being pivoted on cross-piece D, and the hopper I is provided with handles X X, which may be used in guiding the machine.

The operation and advantages of my machine will be readily understood. As it is drawn forward, the axle revolves with the wheels, and the teeth on the axle feed the seed or fertilizer toward the center from each end, when it is forced through the seed-opening by the central radial series of teeth. The construction is very simple and effects economy in space and in expense of manufacture.

I claim as my invention—

As an improvement in fertilizer-distributors, the combination of the side beams, A A, having cross-pieces C D, the latter of which is provided with a series of downwardly-inclined teeth, the bottom M of the hopper, having the seed-opening N, the regulating-plates O O, arranged at each side the opening N, and having transverse slots Q Q in their ends, strips R R, arranged transversely to the pair of plates O O, the screws P P, working through the strips R R and slots Q Q, and the rotary shaft or axle G, having two diametrically-opposite series of feeding-teeth, the teeth of each series being disposed in a longitudinal segment or arc extending from end to end, as set forth.

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

GEORGE REED LEWIS.

Witnesses:

J. W. GRAHAM,
G. M. CARLILE.