

(No Model.)

J. F. HAYGOOD & J. H. ROACH.
MANURE PULVERIZER.

No. 519,629.

Patented May 8, 1894.

Fig. 1.

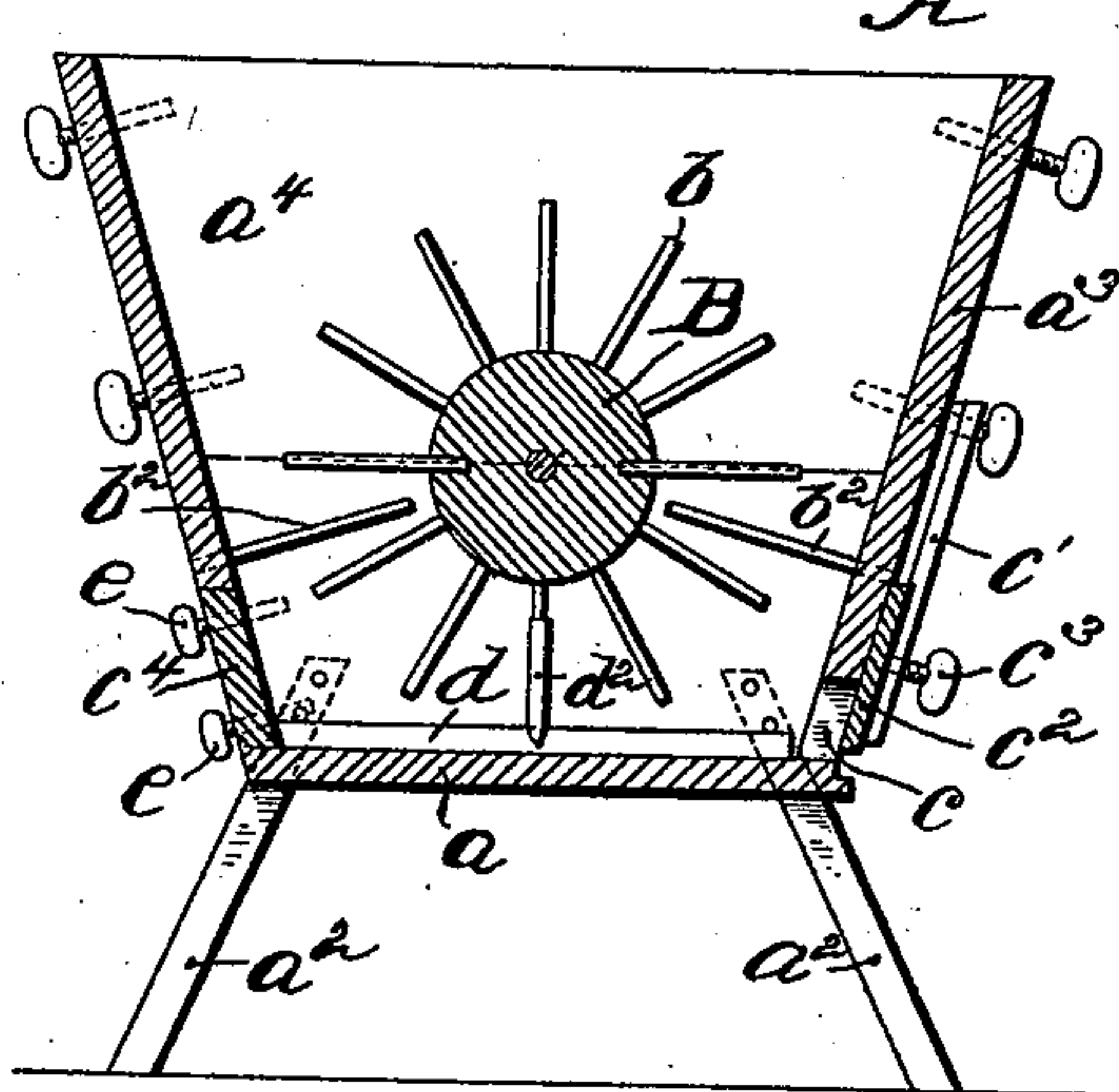


Fig. 2.

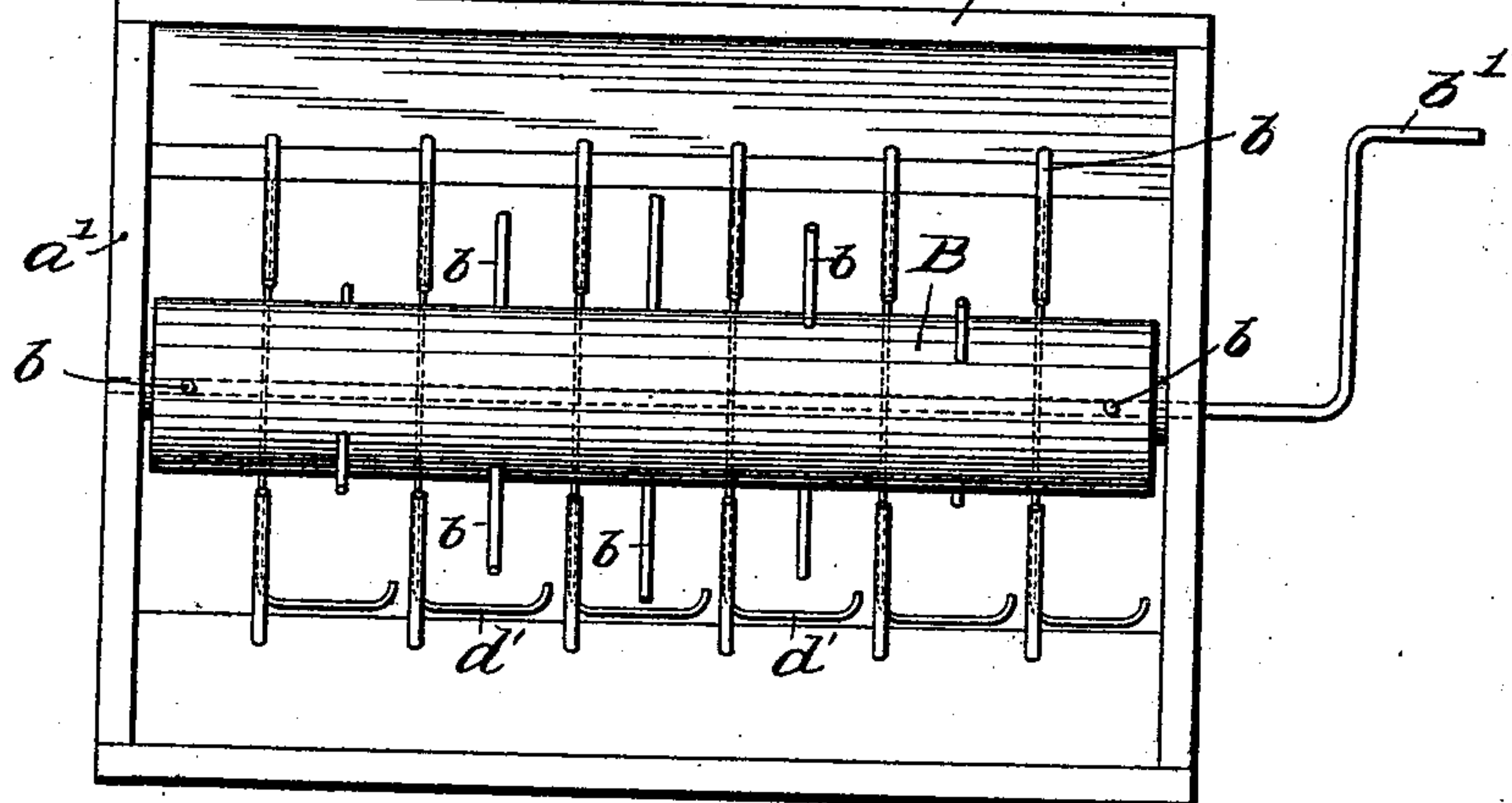
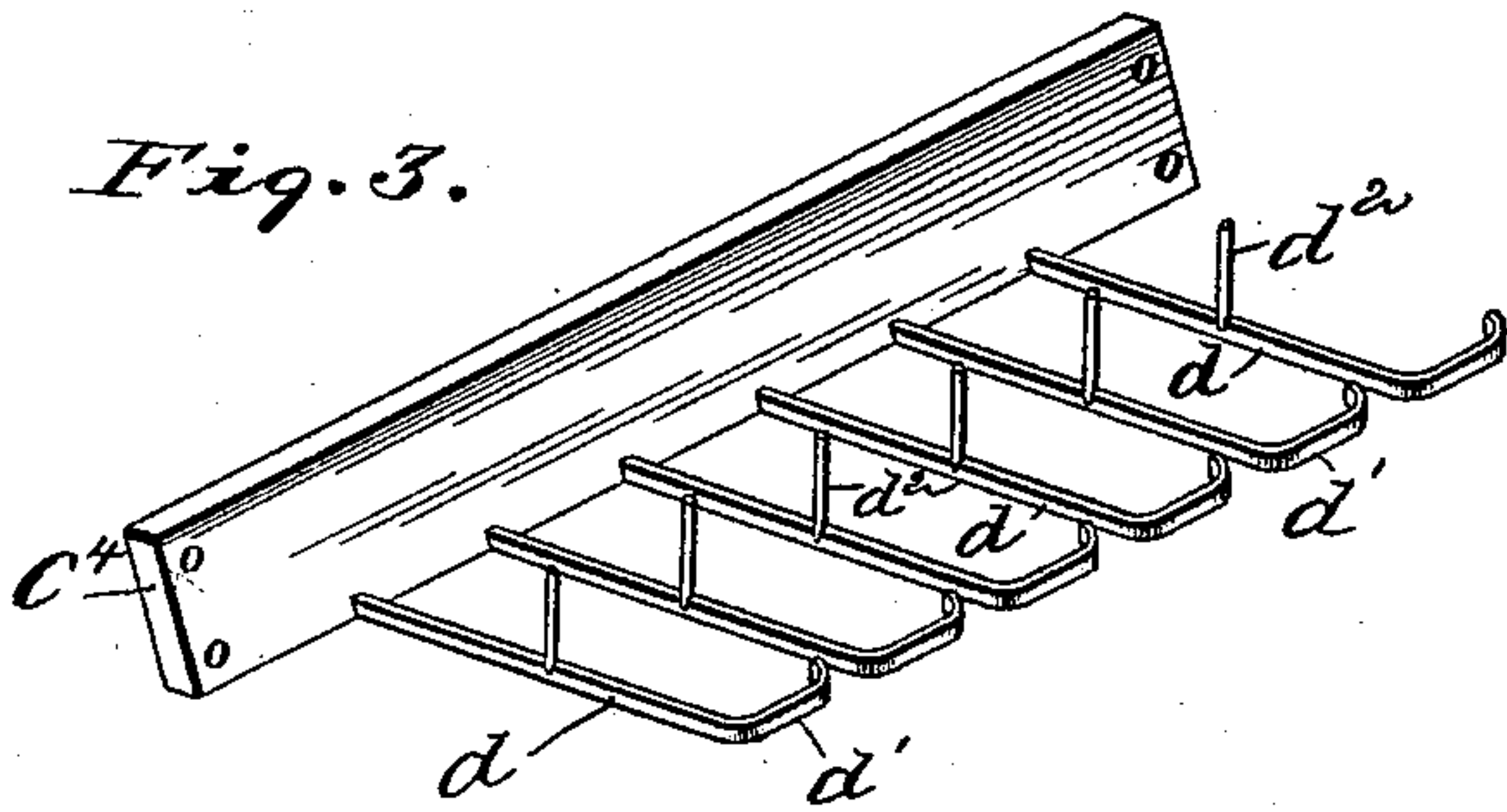


Fig. 3.



WITNESSES,

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MANURE-PULVERIZER.

SPECIFICATION forming part of Letters Patent No. 519,629, dated May 8, 1894.

Application filed October 9, 1893. Serial No. 487,647. (No model.)

To all whom it may concern:

Be it known that we, JOHN FRANCIS HAYGOOD and JOHN HENRY ROACH, citizens of the United States, residing near Watkinsville, in the county of Oconee and State of Georgia, have invented certain new and useful Improvements in Manure-Pulverizers; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as it will enable others skilled in the art to which it appertains to make and use the same.

Our invention is a new "manure pulverizer;" and consists in the novel construction and arrangement of its parts, hereinafter set out in this specification and the claim hereto annexed.

In the accompanying drawings: Figure 1 is a cross sectional view of our invention. Fig. 2 is a top plan view, and Fig. 3. is a perspective view of the cleaner.

Our invention is described as follows:

A, represents a box or bin wider at the top than at the bottom, the bottom a , is stationary being secured to the end pieces a' , of the bin. Said bin is supported on feet a^2 . In the center of the pin is journaled a cylinder B, provided with arms b , (only one of which is lettered.) These arms b , are spirally secured on the said cylinder. The axle of said cylinder is provided with a crank handle b' . In the sides a^3 , a^4 , of the bin A, are secured pins b^2 , in such position that the pins b , may pass between them when the cylinder is rotated. At the bottom of the wall a^3 , is left a slot c , the entire length of the bin for the pulverized manure to fall through after it has been ground. On each end of the said wall a^3 , is secured a rabbet c' , and in the groove of said rabbet works up and down a door c^2 . This door is adjustable by means of set screws c^3 , so that the flow of the pulverized manure may be regulated. In the wall a^4 , and at its bottom is a slot or opening similar to the slot c^2 , the entire length of the bin. In this opening is secured a false wall c^4 , provided with

cleaners d , which extend entirely across the bottom of said bin their ends terminating in hooks d' . On each one of these cleaners d , is vertically secured a rod d^2 , in such position that the pins b , of the cylinder B, will pass between them. The manure is thrown into the bin in its rough state, and as the rods b , carry it around between the pins b^2 , and d^2 , it is broken and ground up and when it is sufficiently ground it passes out through the opening c .

When we wish to clean the bin we unscrew the thumb-screw e , and draw back the false wall c^4 , which brings with it the cleaners d , and the pins d^2 , the hook ends d' , scraping the bottom clean. The cleaners are then cleaned and returned to their place.

With this machine we can take the roughest manure and in a short time pulverize it sufficiently fine to be used for manuring ground for any garden truck. The process of grinding the manure thoroughly mixes it.

Having described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The bin A, provided with a stationary bottom a , and longitudinal slots at the bottom of each of its walls a^3 , a^4 ; rabbet c' , secured on each end of the wall a^3 ; door c^2 , adapted to work up and down in the grooves of said rabbets; false wall c^4 , provided with cleaners d , having the hooked ends d' , and mounted with pins d^2 ; pins b^2 , extending from the inner walls of the bin, and cylinder B, journaled in said bin and provided with pins b , substantially as shown and described and for the purposes set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

JOHN FRANCIS HAYGOOD.
JOHN HENRY ROACH.

Witnesses:

T. C. DANIELL,
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