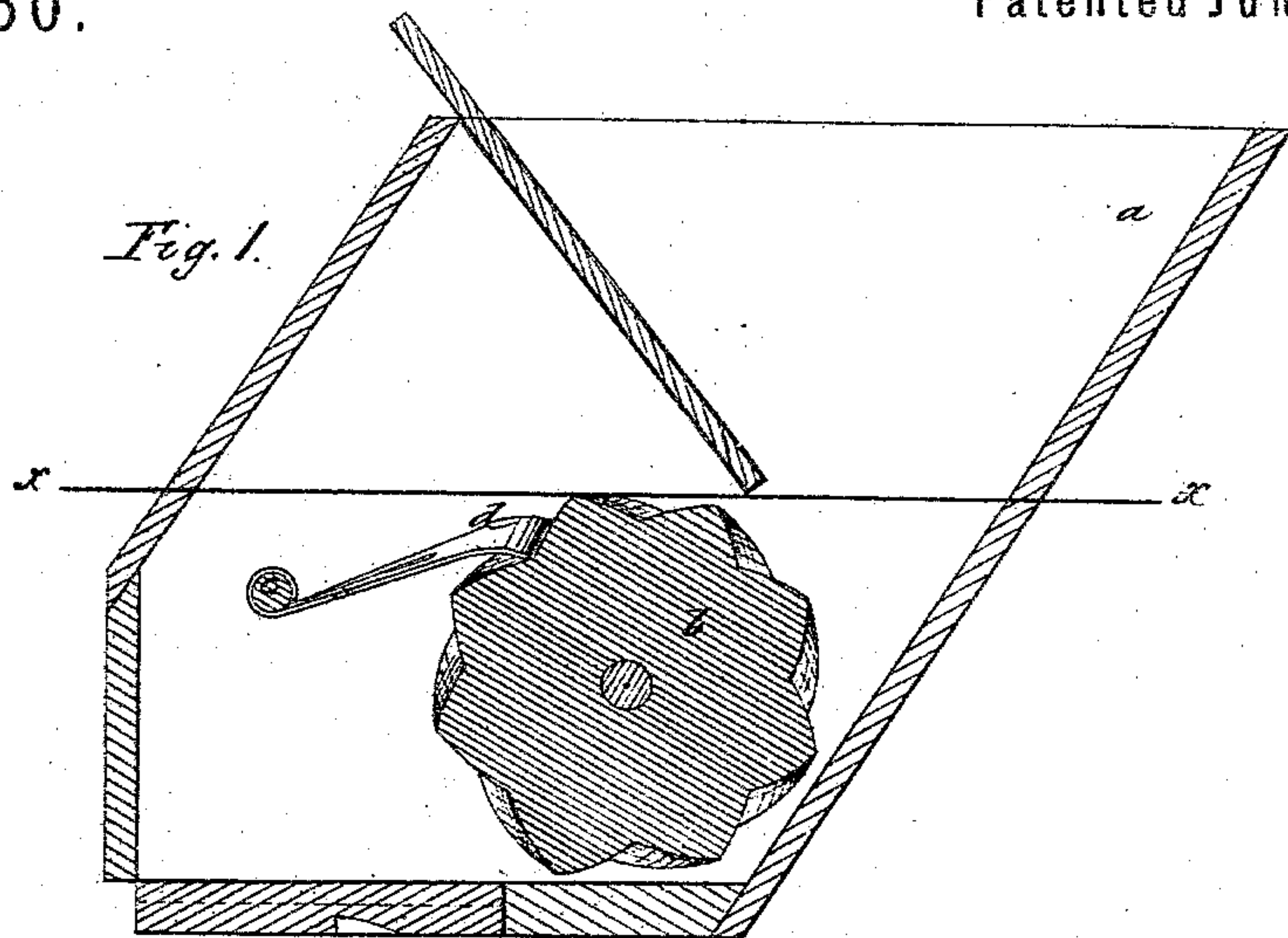


J. P. MACHEN.

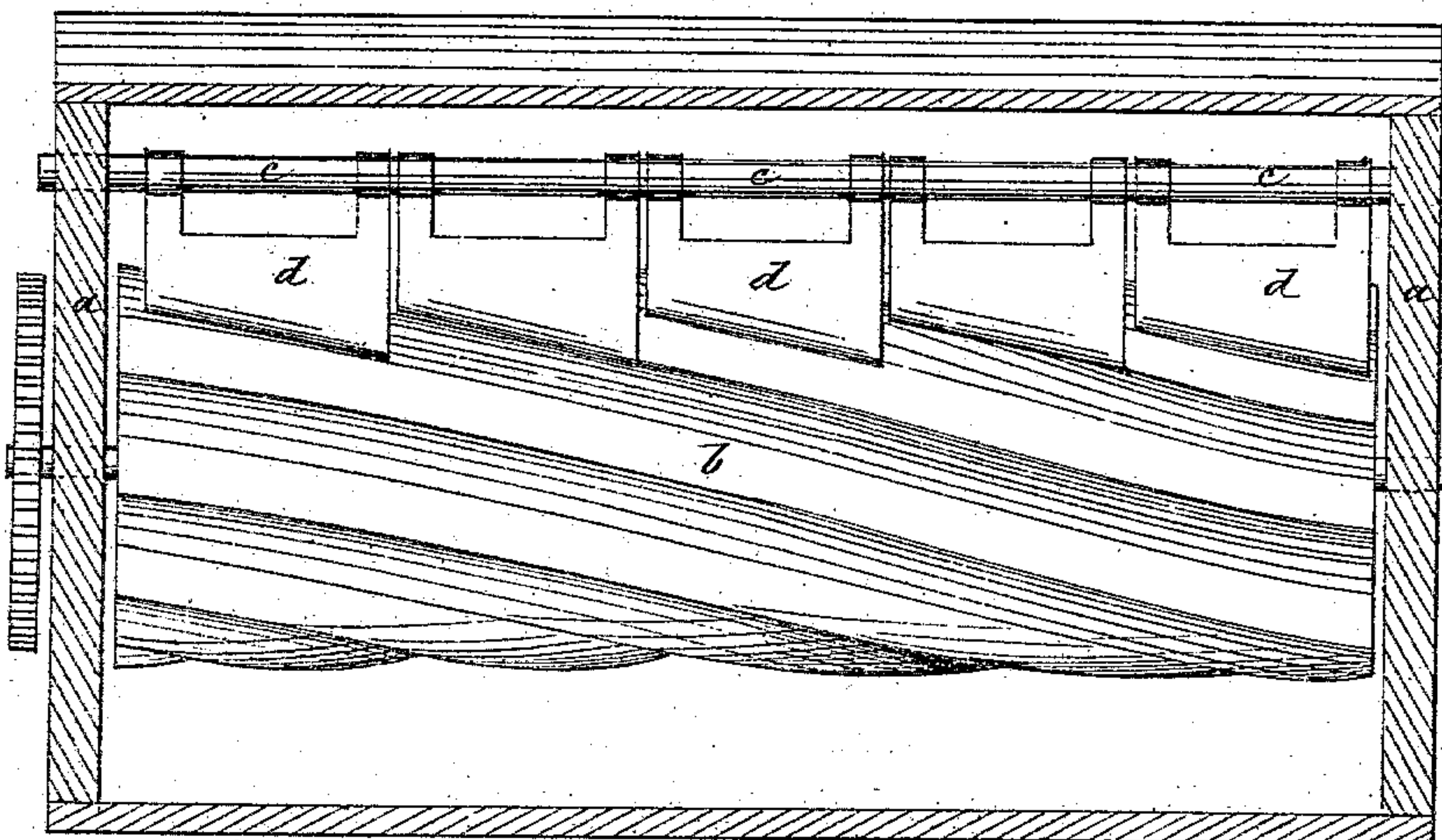
Improvement in Broadcast Fertilizer Distributers.

No. 115,750.

Patented June 6, 1871.



*Fig. 2.*



Witnesses:

*L. J. Tracy*  
*Thos. J. Durand*

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# UNITED STATES PATENT OFFICE.

JAMES P. MACHEN, OF CENTREVILLE, VIRGINIA.

## IMPROVEMENT IN BROADCAST FERTILIZER-DISTRIBUTERS.

Specification forming part of Letters Patent No. 115,750, dated June 6, 1871.

*To all whom it may concern:*

Be it known that I, JAMES P. MACHEN, of Centreville, in the county of Fairfax and State of Virginia, have invented a new and Improved Broadcast Fertilizer-Distributor; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a transverse sectional elevation, and Fig. 2 a longitudinal horizontal section.

This invention consists in a series of scrapers, which rest on the upper part of the distributing-cylinder of a broadcast sower, and are hinged to a bar at the side of the same, which scrapers clean the surface of the cylinder as the latter revolves, while, at the same time, they present but a very trifling obstacle to its rotation.

Referring to the drawing, *a* is the receiver of a broadcast sower; *b*, the distributing-cylinder, mounted lengthwise of the receiver in the usual manner, and having, in this instance, a spirally-fluted periphery, instead of which it may have spiral flanges, if preferred. *c* is a rod, placed parallel with the distributor, and by the side of the same, at a suitable distance from it. *d* are metallic scrapers, hinged at one

end to the rod *c*, and resting at their other ends upon the corrugations of the distributor. The scrapers are placed side by side, in numbers sufficient to fill the rod independent of each other, their front edges being inclined to correspond with the inclination of the spirals, and their free ends being bent downward enough to enable them to operate efficiently in drawing adhering material off from the surface of the distributor. The scrapers are all of equal length, and of a suitable width to enable them to properly discharge their function without seriously resisting the rotation of the distributor by their weight.

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

In combination with the spirally-grooved roller, the hinged scrapers *d d*, having inclined or oblique front edges to operate upon said roller, substantially as herein described, for the purpose specified.

JAMES P. MACHEN.

Witnesses:

SOLON C. KEMON,  
CHAS. A. PETTIT.