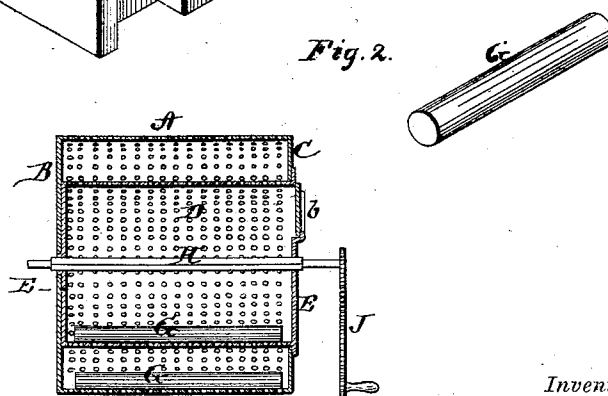
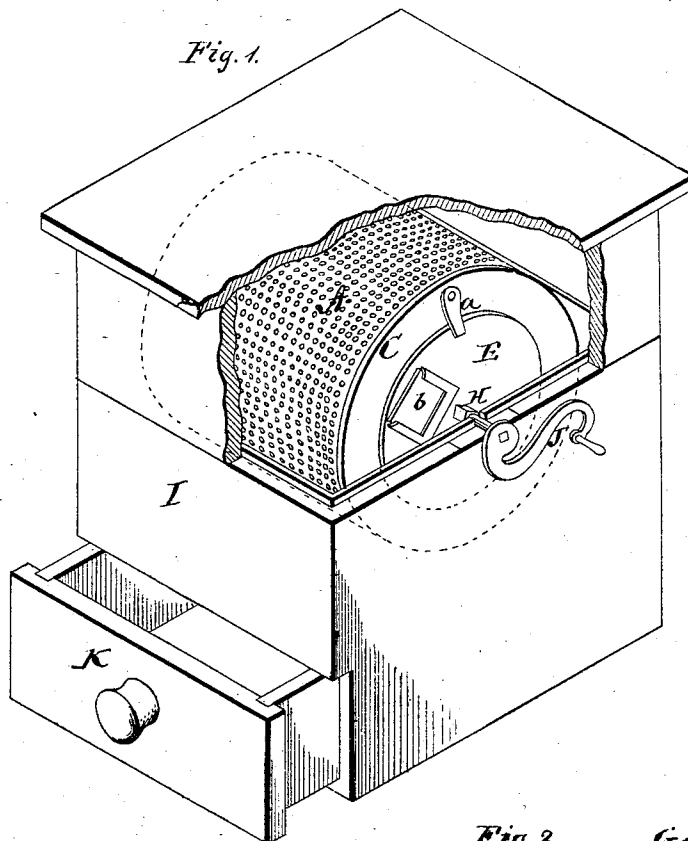


A. E. NEAT.

Revolving Sieves.

No. 135,355.

Patented Jan. 28, 1873.



Witness:

Henry N. Miller
C. L. Gault.

Inventor.

Addis E. Neat.

per Alexander Thomson
Attorneys.

UNITED STATES PATENT OFFICE.

ADDIS E. NEAT, OF NEW ALBANY, INDIANA.

IMPROVEMENT IN REVOLVING SIEVES.

Specification forming part of Letters Patent No. **135,355**, dated January 28, 1873.

To all whom it may concern:

Be it known that I, ADDIS E. NEAT, of New Albany, in the county of Floyd and in the State of Indiana, have invented certain new and useful Improvements in Revolving Sieves; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a revolving sieve, whereby a compound may be pulverized, mixed, and sifted in the same time that it usually takes to pass through either one of said processes.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view, showing the box broken open to expose the sieve inside; and Fig. 2 is a longitudinal section of the sieve.

A represents a cylindrical sieve, made of perforated sheet-metal, wire-cloth, or other suitable material, said sieve being closed at one end by a head, B, and at the other end provided with an annular plate, C. Through the head or plate C is passed a smaller cylindrical sieve, D, closed at both ends by heads E. The outer head of the interior sieve D is held to the annular plate C by buttons *a* or other suitable devices, and in said head E is a sliding door, *b*, through which the material to be sift-

ed is introduced. In each of the sieves A and D is placed a metal roller, G, extending nearly the entire length of the cylinder. Through the interior sieve D passes a central shaft, H, one end of which also passes through the head B of the exterior sieve A. The ends of this shaft rest in suitable bearings formed in the sides of a box, I, and is provided with a crank, J, for turning the sieve. Under the sieve, in the box I, is a drawer, K, to receive the sifted material. By the rollers G G inside of the cylinders all clods in the materials are broken and as finely pulverized as if ground in a mortar; and in mixing compound powders of any kind this machine, by its revolving motion and double sieves, will do the work in the most effectual manner. A compound will, hence, in this machine be pulverized, mixed, and sifted all at once, in the same time that it usually takes for either one of these processes.

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

The combination of an exterior and an interior cylindrical sieve, both placed upon a single shaft and revolving with the same, and each provided with one or more interior loose rollers, substantially as herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 6th day of November, 1872.

ADDIS E. NEAT.

Witnesses:

LA FAYETTE WOOD,
JACOB K. WALTS.