

G. SIDEY.
SIFTING MACHINE.

No. 105,989.

Patented Aug. 2, 1870.

Fig. 1
x

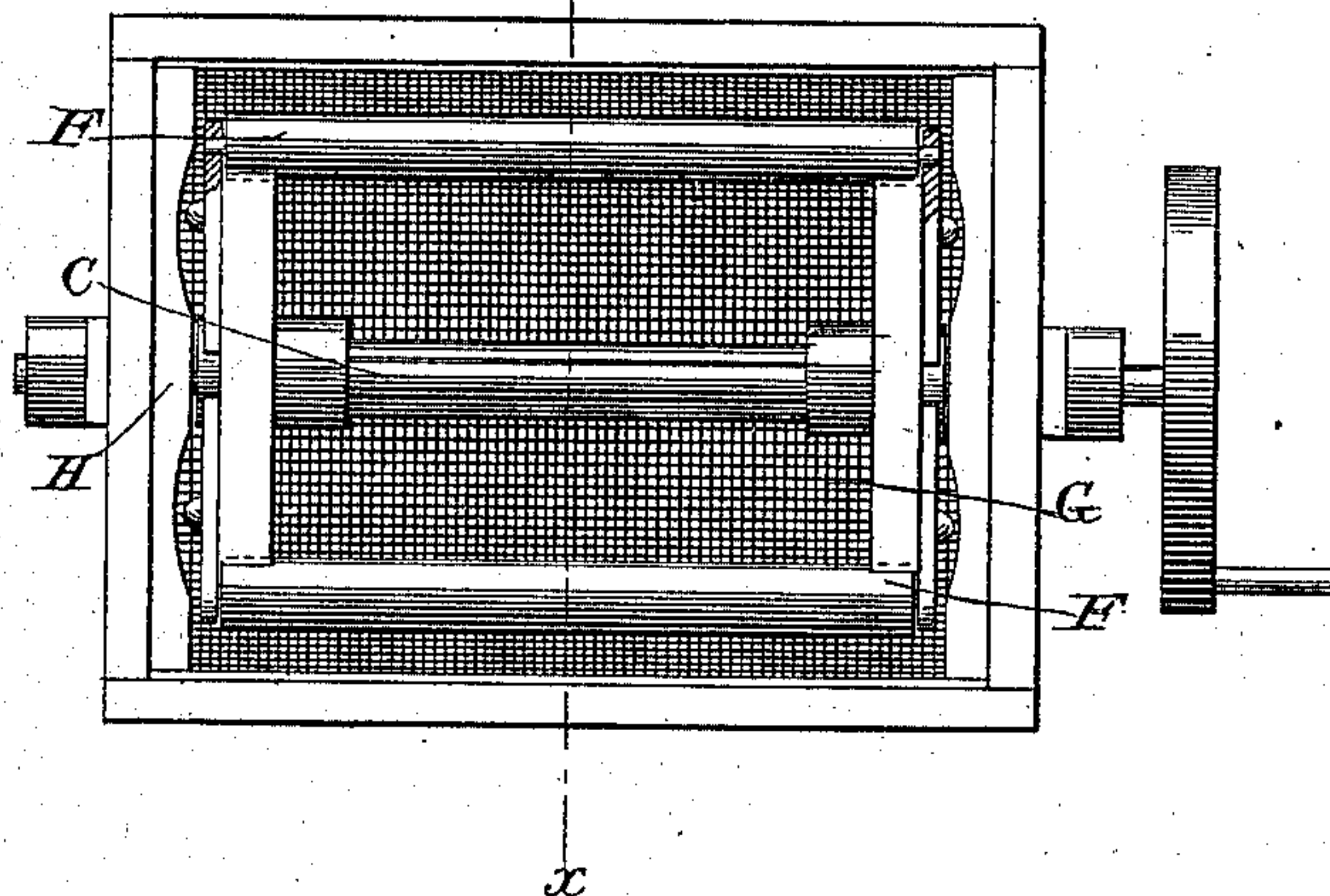
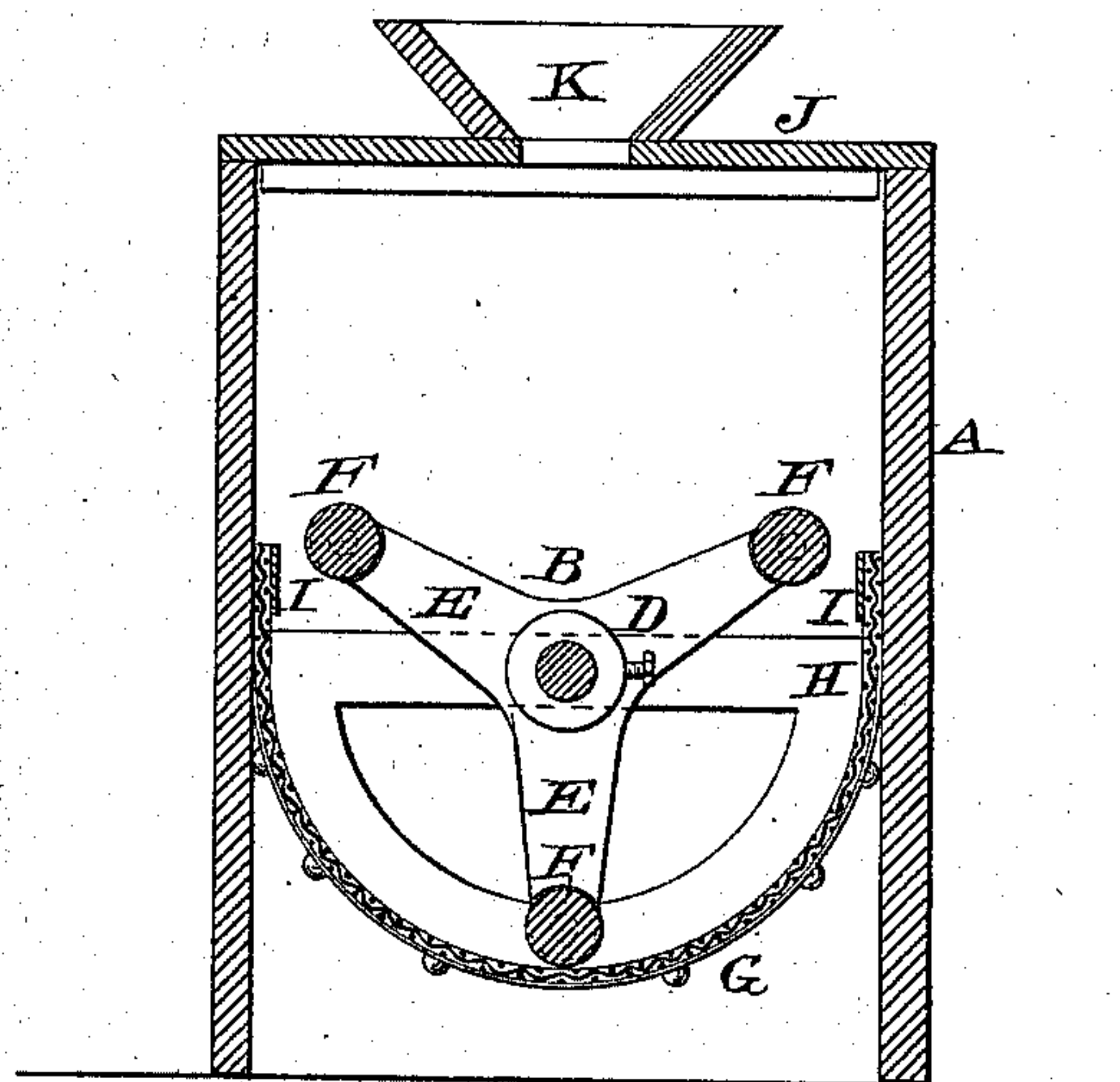


Fig. 2



Witnesses:

A. B. Newcomb
S. S. Mabee

Inventor.

G. Sidey
Mmms

United States Patent Office.

GEORGE SIDEY, OF BROOKLYN, NEW YORK.

Letters Patent No. 105,989, dated August 2, 1870.

IMPROVEMENT IN SIFTING-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern.

Be it known that I, GEORGE SIDEY, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Sifting-Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

My invention relates to machines for sifting, and consists in a certain arrangement and construction of parts to adapt the machine to paints and analogous articles.

In the accompanying drawing—

Figure 1 represents a top or plan view, with the cover off.

Figure 2 is a vertical cross-section of fig. 1 on the line *x x*.

Similar letters of reference indicate corresponding parts.

A is the box, which may be made of wood or metal, of square or rectangular form, and of suitable size.

B is a reel, consisting of a central shaft, C, with heads D thereon, with arms E (more or less in number) radiating from the center.

Supported on pivots in the ends of these arms are bars or rollers, F. These rollers may be made stationary, so that they will not revolve on their pivots, if desired, but I prefer to have them loose, so that they will revolve by friction on the substance being sifted.

The reel is revolved by means of a crank, or by steam or other power, by means of a pulley or gear-wheels.

G is the bottom, (or sieve,) which is semi-cylindrical in form, and of an interior diameter a trifle greater than the sweep or circle described by the roller F.

The sieve is confined at each end to the head-piece H, by bands and nails or screws, as seen in the drawing.

The sides of the sieve are confined to the box, as seen at I I.

The material or substance to be sifted is fed in through the removable top J and hopper K.

In the manufacture of paints (what is known as "Paris green," for instance,) there are lumps to be crushed, and impurities to be removed, before the paint can be ground. The dry paint is, therefore, sifted. The revolving reel and bars or rollers F serve to crush the lumps and sift the paint in the same operation.

This sieve may be employed to advantage for sifting many substances besides paints.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The arrangement of a reel, formed of heads D, arms E, and rollers F, to revolve within a semi-cylindrical stationary sieve, G, attached to head-pieces H, all constructed and relatively arranged in a vessel, A, as and for the purpose specified.

GEO. SIDEY.

Witnesses:

T. B. MOSHER,
ALEX. F. ROBERTS.