

S. Greene.
Card Cleaner.

N^o 11,964.

Patented Nov. 21, 1854.

Fig. 4.

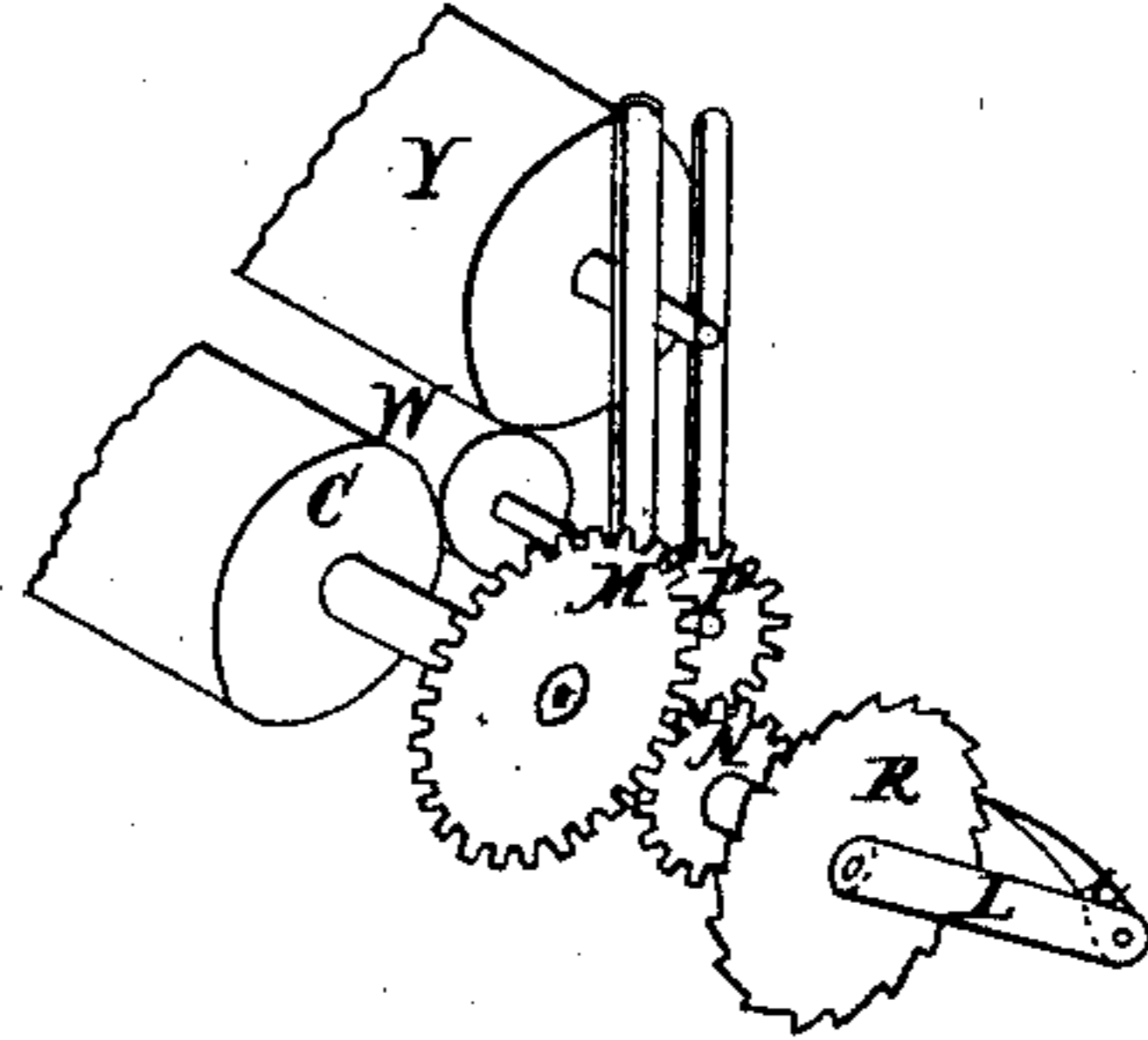


Fig. 3.

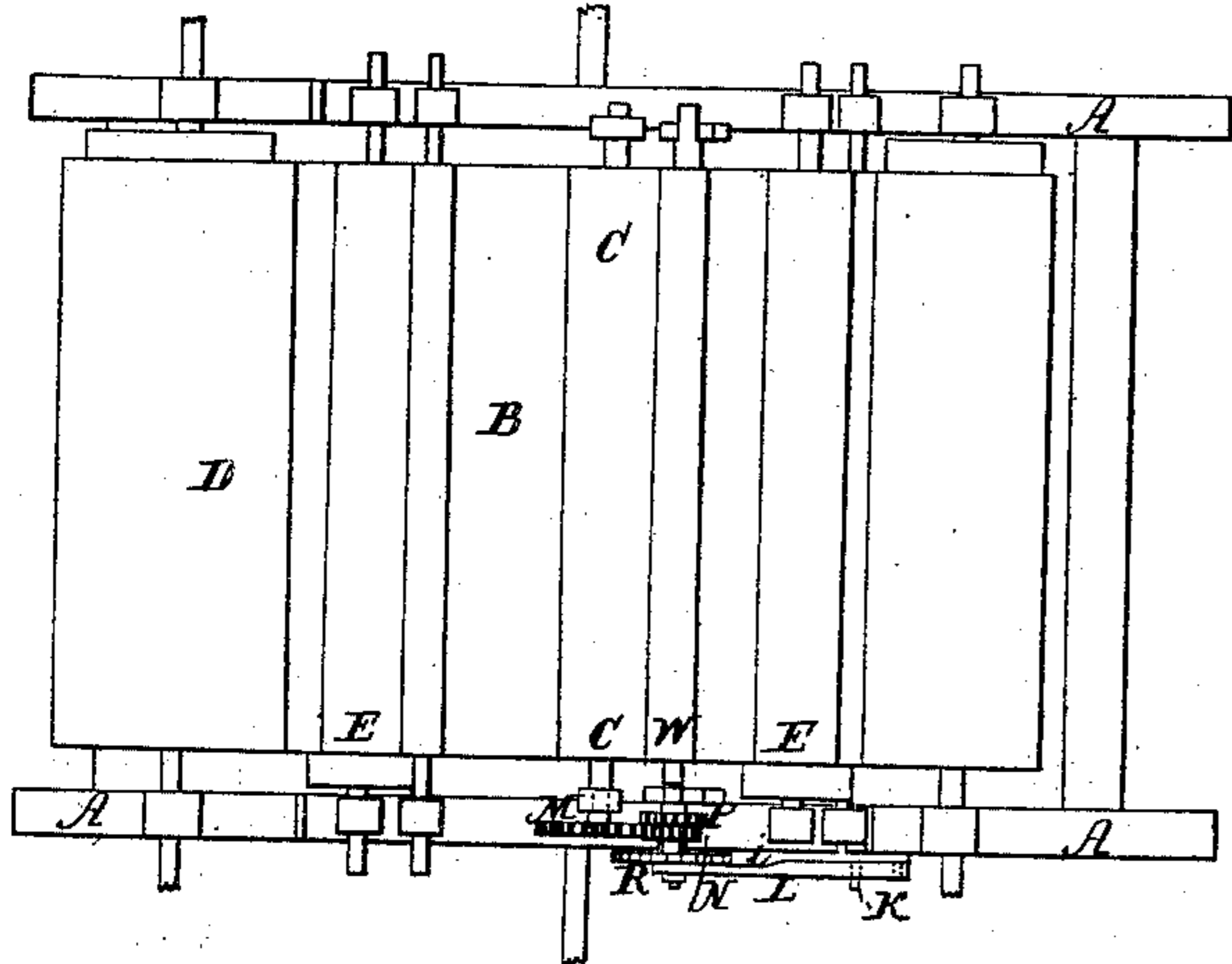


Fig. 2.

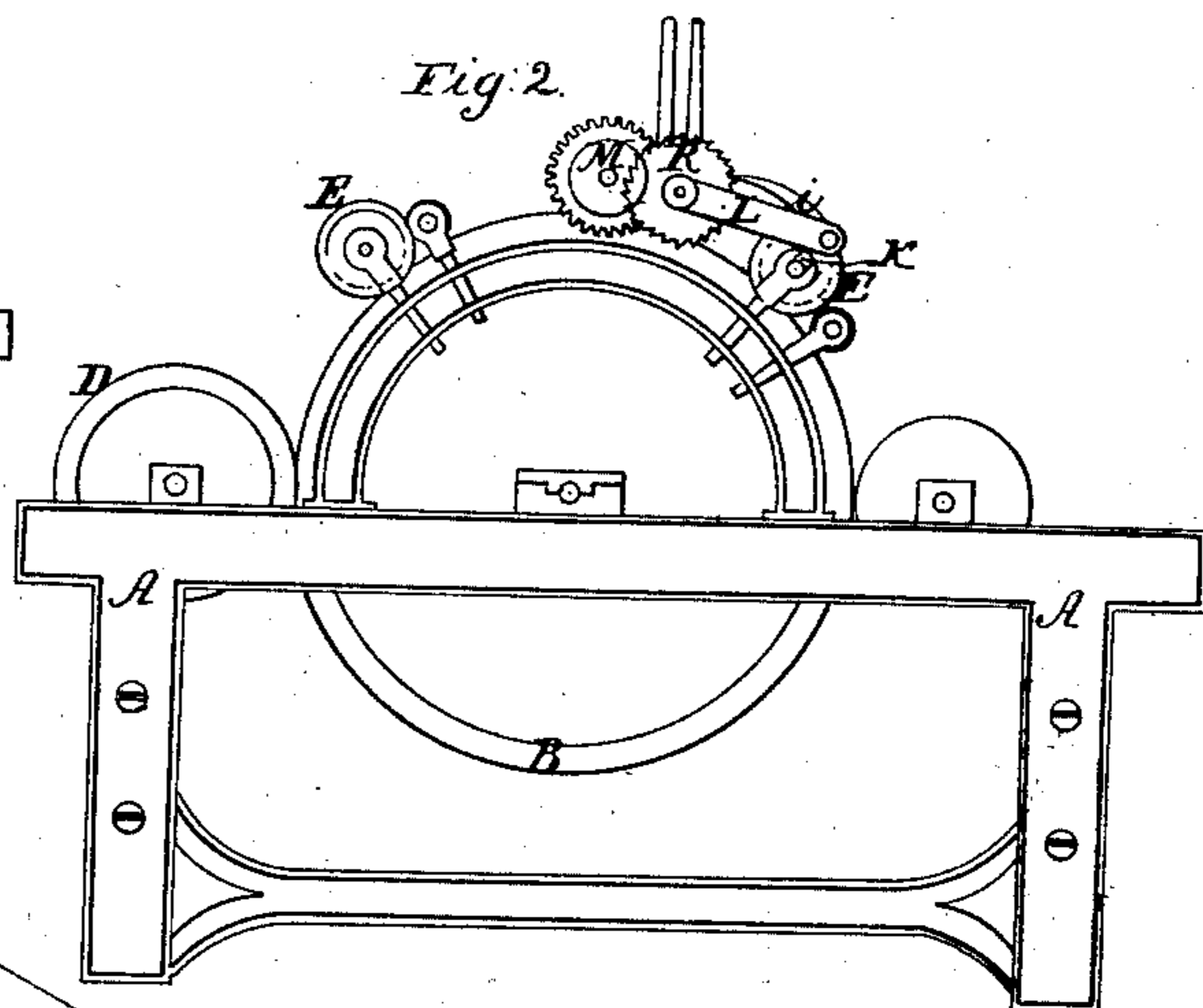
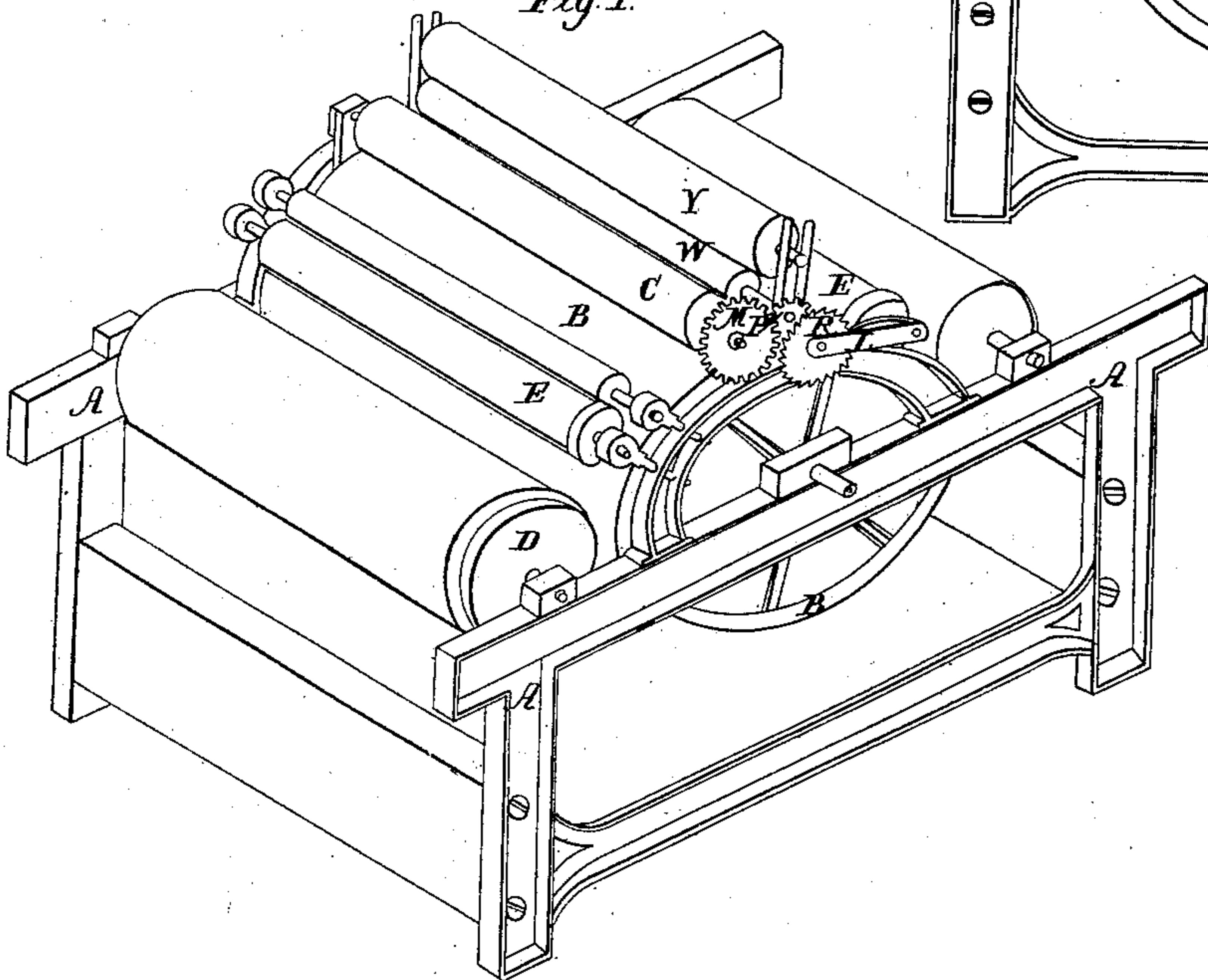


Fig. 1.



UNITED STATES PATENT OFFICE.

SAMUEL GREENE, OF WOONSOCKET, RHODE ISLAND.

IMPROVEMENT IN CLEANING-CARDS OF CARDING-ENGINES.

Specification forming part of Letters Patent No. **11,964**, dated November 21, 1854.

To all whom it may concern:

Be it known that I, SAMUEL GREENE, of Woonsocket, in the county of Providence and State of Rhode Island, have invented a new and useful Improvement in Machines for Carding and Separating Impurities from Cotton; and I hereby declare the following to be a full and clear description thereof, reference being had to the drawings herewith presented, which drawings constitute a part of said description.

This improvement consists, principally, in a device for taking out the tufts, knobs, and specks, which are found to adulterate more or less all crude cotton. This is performed by a clearing-cylinder which is covered with card-fillet, and is made to act constantly on the main cylinder of the carding-engine. It is caused to revolve a few degrees at intervals, so as to present a fresh portion of clean card constantly to the main cylinder. By this means it acts as a flat or top card, continually catching the tufts and specks and carrying them to the upper side, where a wiper-cylinder wipes them off, and they are then lapped round a wooden roller Y, which lies on the top of the wiper, and here the waste is allowed to accumulate from day to day. It may be removed once a week, or oftener, at pleasure. If taken off at proper times, it comes in the form of complete bats, thus saving the labor of stripping of top-flats, and also saving the labor of carding and batting the waste.

In the drawings, Figure 1 is an isometrical view of so much of the machine as will show the application of the several parts.

Fig. 2 is a side view of the same. A A is

the frame. B is the main cylinder. C is the clearer-cylinder. This is moved by a ratchet-wheel R by a catch *i* on the lever L. This lever has its fulcrum on the stud of the wheel R, and is actuated by the crank K on the shaft of one of the workers E E and turns the clearer C by a wheel M and pinion N. It also turns the wiper W by the pinion P. This wiper W is covered with soft leather. D is the doffing-cylinder.

Fig. 3 is a plan or top view of the same.

Similar letters indicate the same part in each section.

Fig. 4 shows the gear-wheels (enlarged) which move the clearer and wiper.

It may be observed that in this process all the stationary top cards are dispensed with and a more uniform sliver is produced than can be made when top-flats are used and the waste removed periodically.

As this improvement is applicable to all carding-engines, it will not be necessary to give a minute description of the various parts of a machine universally known.

What I claim as my invention, and desire to secure by Letters Patent, is—

The application of the clearer-cylinder and wiper, as above described, by which the impurities of the cotton are taken out and formed into a bat.

In testimony whereof I hereto subscribe my name in presence of two witnesses.

SAMUEL GREENE.

Witnesses:

HENRY MARTIN,

ALBERT HEWITT.