

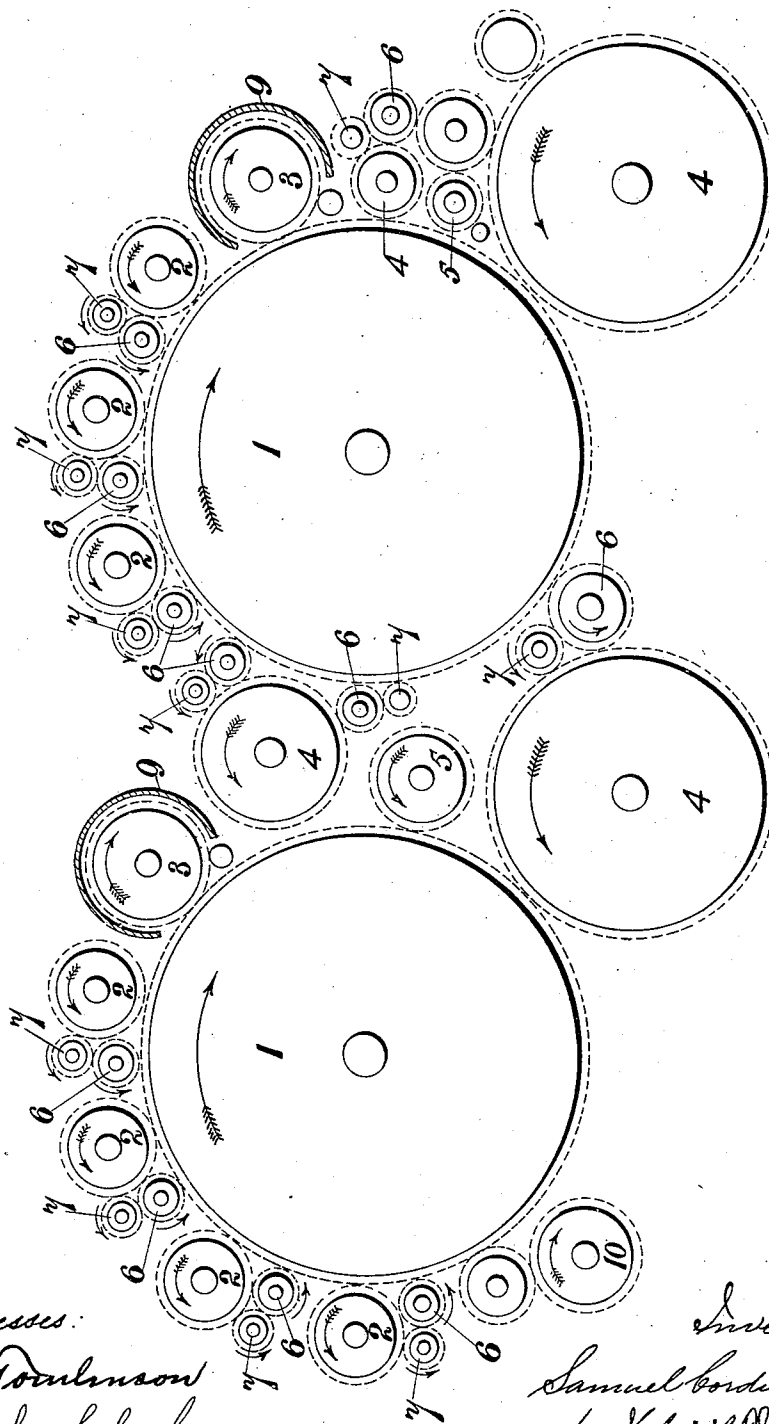
No. 856,031.

PATENTED JUNE 4, 1907.

S. CORDINGLEY.
CARDING MACHINE.
APPLICATION FILED OCT. 25, 1906.

2 SHEETS—SHEET 1.

FIG. 1.



Witnesses:

S. E. Tomlinson
Jacob Schaefer

Inventor

Samuel Cordingley
by Herbert W. Jenner.
Attorney.

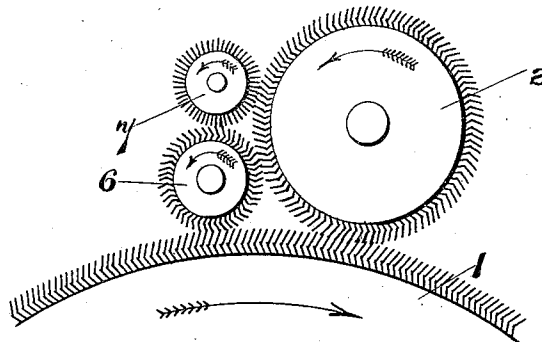
No. 856,031.

PATENTED JUNE 4, 1907.

S. CORDINGLEY.
CARDING MACHINE.
APPLICATION FILED OCT. 25, 1906.

2 SHEETS—SHEET 2.

FIG. 2.



Witnesses:

S. E. Tomlinson
Jacob Schaefer

Inventor.

Samuel Cordingley
by Herbert W. Jones.
Attorney.

UNITED STATES PATENT OFFICE.

SAMUEL CORDINGLEY, OF PUDSEY, ENGLAND.

CARDING-MACHINE.

No. 856,031.

Specification of Letters Patent.

Patented June 4, 1907.

Application filed October 25, 1906. Serial No. 340,591.

To all whom it may concern:

Be it known that I SAMUEL CORDINGLEY, a subject of the King of Great Britain and Ireland, and a resident of Priestley Mill, Pudsey, in the county of York, England, have invented certain new and useful Improvements in Machines for Carding and Preparing Wool and other Fibers, (for which I have obtained a patent in Great Britain, No. 25,903, bearing date December 13, 1905,) of which the following is a specification.

The object of my invention is to so construct a scribbler or carding engine that the fiber under operation is thoroughly cleaned and with less waste than heretofore and owing to the peculiar arrangement of the workers and cleaning and stripping rollers the machine requires less "fettling" with consequent reduction of labor entailed in this operation and the workers are maintained in an efficient working condition.

Referring to the drawings which form a part of this specification. Figure 1 represents a scribbler or carding engine made in accordance with this invention. Fig. 2 is a detail drawn to an enlarged scale showing the direction of motion of the several rollers or cylinders.

According to this invention I employ in combination with each swift or cylinder 1 a series of workers 2—2, a fancy 3, two doffers 4—4, and between the latter a cleaner 5 which also acts to a certain extent as a fancy roller inasmuch as it raises the "stock" or fiber remaining on the cylinder or swift 1. In combination with each worker 2 is a stripper 6 disposed in the angle formed between the worker 2 and the swift 1 and preferably on the side shown and in the angle formed by the worker 2 and stripper 6 is a small cleaner 7 and the doffers 4—4 are also provided with strippers 6 and cleaners 7.

The fancy rollers 3 are preferably covered with or incased in a shell 9 which prevents the fiber being thrown out of the machine.

At 10 is the lickier in and the direction of motion of the several rollers or cylinders and the fiber under operation is indicated by the arrows in Fig. 2.

Except as regards the arrangement and combination of the several workers, strippers, cleaners, fancies, and doffers, in relation to the cylinder or swift the machine is constructed in the ordinary manner.

The relative surface speed of the several rollers or cylinders may be varied but satisfactory practical results are obtained when the cylinder or swift 1 makes 100 revolutions per minute, the worker 2 ten revolutions per minute, the stripper 6 fifteen revolutions per minute, and the cleaner 7 fifteen revolutions per minute.

The inclination of the dents or teeth of the card clothing covering the several rollers is shown in Fig. 2. The fiber is carried by the cylinder or swift 1 to the worker 2 which traveling at a slower speed retains the fiber or a portion of it and carries it to the cleaner 7 which removes the fiber and deposits it on the stripper 6 which also removes any fiber left on the worker 2 the fiber is then taken by the cylinder or swift 1. In this way the fiber is scribbled or cleaned and straightened by the joint action of the cylinder 1 and the worker 2 again by the cleaner 7 and stripper 6 and again by the joint action of the stripper 6 and cylinder or swift 1.

It will of course be understood that a portion only of the fiber under operation is manipulated by the several series of rollers or cylinders a dressed portion being carried forward by the cylinder or swift to the doffer as ordinary.

The stripper 6 removes any fiber left on the worker 2 by the cleaner 7 and also keeps the points of the card dents or teeth on the worker 2 in good condition.

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

In a carding machine, the combination, with a cylinder, of a series of workers 2, strippers 6 arranged in the angles formed in front of and between each said worker and the said cylinder, cleaners 7 arranged in the angles formed between each said worker and its stripper, a fancy roller 3 arranged to the rear of the said series of workers, two doffers 4 arranged to the rear of and below the said fancy roller, and a cleaner 5 arranged intermediate of the two said doffers.

In testimony whereof I affix my signature, in presence of two witnesses.

SAMUEL CORDINGLEY.

Witnesses:

WALTER BRIERLEY,
FRED HAMMOND.