

A. Wright. Carding Mach.

N^o 6,057.

Patented Jan. 23, 1849

Fig. 1.

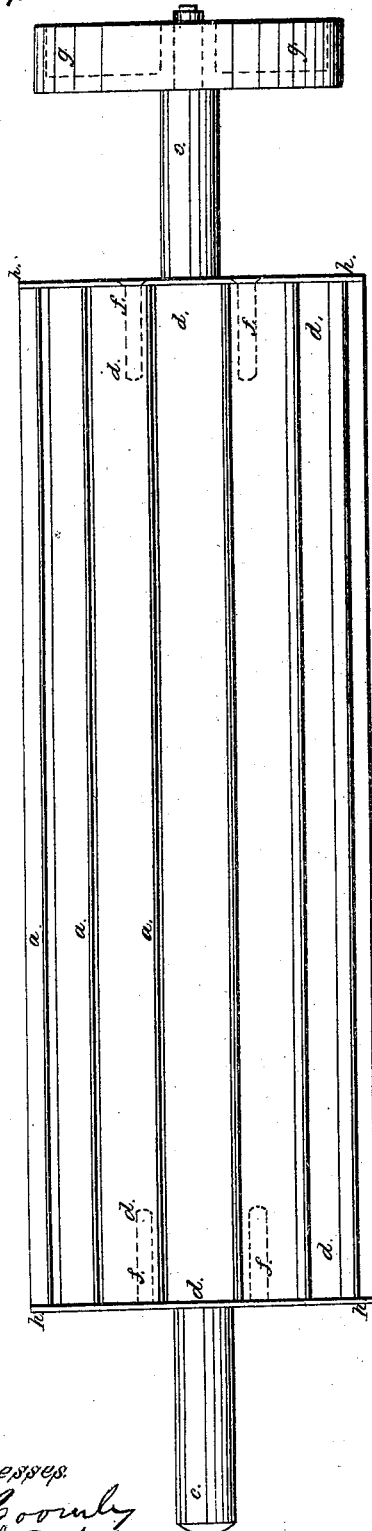
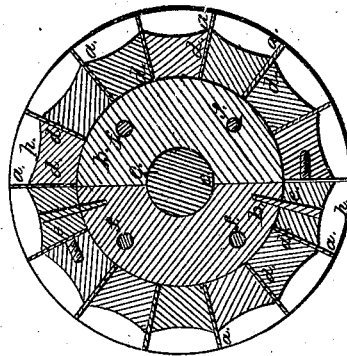


Fig. 2.



Witnesses
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att'y

UNITED STATES PATENT OFFICE.

ALEXANDER WRIGHT, OF LOWELL, MASSACHUSETTS.

GUARD OR STRIPPER FOR BURRING-MACHINES.

Specification of Letters Patent No. 6,057, dated January 23, 1849.

To all whom it may concern:

Be it known that I, ALEXANDER WRIGHT, of Lowell, in the county of Middlesex and State of Massachusetts, have invented new and useful Improvements in the Construction of the "Guard" or Stripping-Cylinder Used in Burring-Machines, and that the following description, taken in connection with the accompanying drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvements by which my invention may be distinguished from others, together with such parts as I claim and desire to have secured to me by Letters Patent.

The figures of the accompanying plate of drawings represent my improved mode of construction for said cylinders.

Figure 1 is a plan and Fig. 2 a transverse vertical section of the same.

These stripper cylinders, for burring wool or cleaning cotton, have usually been made either of tinned iron, with the stripping edges properly soldered to a revolving shaft, or of cast iron. When made of either of these materials, according to modes now practiced, they are somewhat expensive, and when, after use, the scraping or stripping edges are worn to any considerable degree the cylinders must be thrown aside and new ones substituted, thereby enhancing the cost of running the machines.

By my improved mode of constructing the aforesaid cylinders, they are believed to be much preferable to others in their operation, while at the same time their first cost is quite inconsiderable, in comparison with these others, and they are readily susceptible of repair, being then as good as new ones.

The scraping or burring edges are formed of strips of steel or other suitable metal *a, a, a, &c.*, arranged, in radial directions, around a wooden roller *b b* which roller is properly secured to the metallic shaft *c, c*. The steel strips *a a a, &c.*, are secured by screws, so as to be adjustable if necessary, to the longitudinal wooden segments *d d d d, &c.*, shaped as shown in section in Fig. 2, and arranged around the roller *b b*, as therein shown, each segment being secured to said roller, by wooden pins driven

through them into said roller as shown at *e, e*, Fig. 2. The outer edges of the burring strips *a, a, a*, project some little distance, out beyond the exterior surface of the intervening wooden segments *d, d, d, d*, and said exterior surface of said segments may be formed concave, as shown in the drawings, or convex, according to the taste of the manufacturer. The ends of the cylinder thus constructed are fitted with circular metallic caps or plates *h h, h h* screwed thereto as shown by dotted lines at *f, f, f, &c.*, in Fig. 1. A driving pulley for the cylinder is shown at *g g* in said Fig. 1.

The reduction of the cost, in producing these cylinders, in conformity to the plan above described, has already been stated. Another advantage is, that being able to use very thin steel for the scrapers, a very slight projection of their edges beyond the exterior surface of the segments *d d, &c.*, will suffice to enable them to knock off the burs, while by reason of this projection they create less wind than is usual with deeper scrapers, which latter are apt to operate like a fan, disturbing and displacing the wool on the other cylinders.

When the edges of the scrapers *a, a, a, &c.*, are worn down, they may be easily filed, and by inserting and passing a grooving plane between the same the exterior surfaces of the intervening wooden segments may be reduced as much as desired.

Having thus described my improvements I shall state my claim as follows—

What I claim as my invention and desire to have secured to me by Letters Patent, is—

A guard or stripper cylinder (used in machines for burring wool and cleaning cotton) constructed with steel strips *a, a, &c.*, for scrapers, arranged and combined with the wooden segments *d d, &c.*, about a roller or shaft substantially as herein above described.

In testimony that the foregoing is a true description of my said invention I have hereto set my signature this twenty sixth day of July, in the year 1848.

ALEX. WRIGHT.

Witnesses:

EZRA LINCOLN, Jr.,
LUTHER BRIGGS, Jr.