

No. 828,241.

PATENTED AUG. 7, 1906.

H. PETERSON.  
COTTON GIN ROLLER.  
APPLICATION FILED JAN. 4, 1906.

Fig. 1.

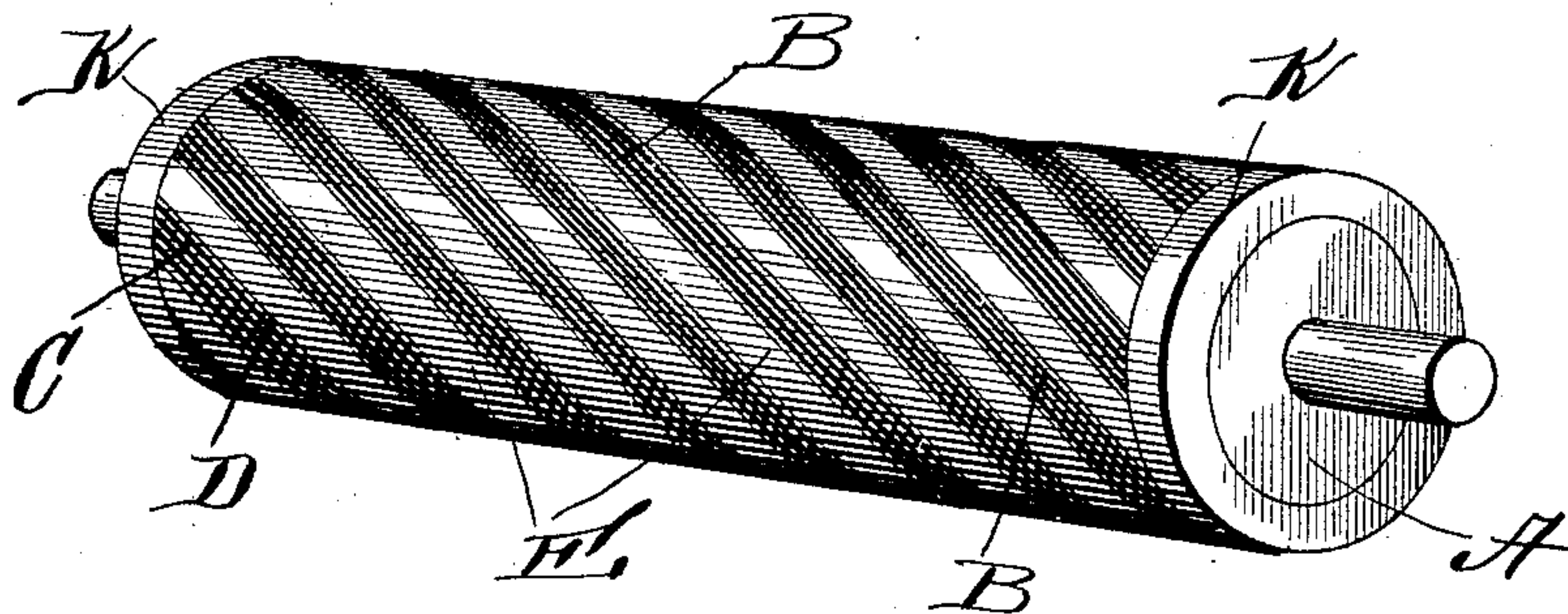


Fig. 2.

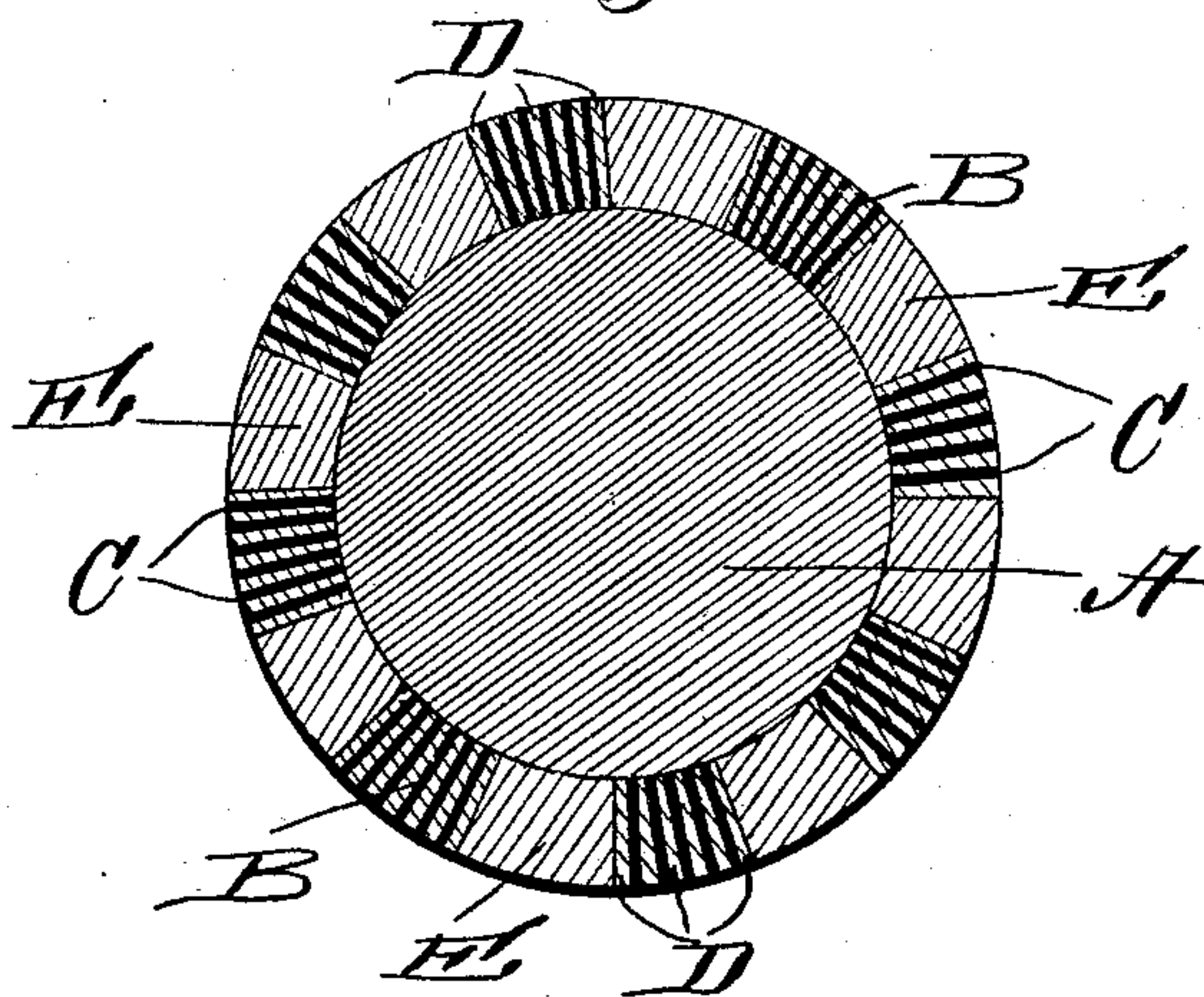
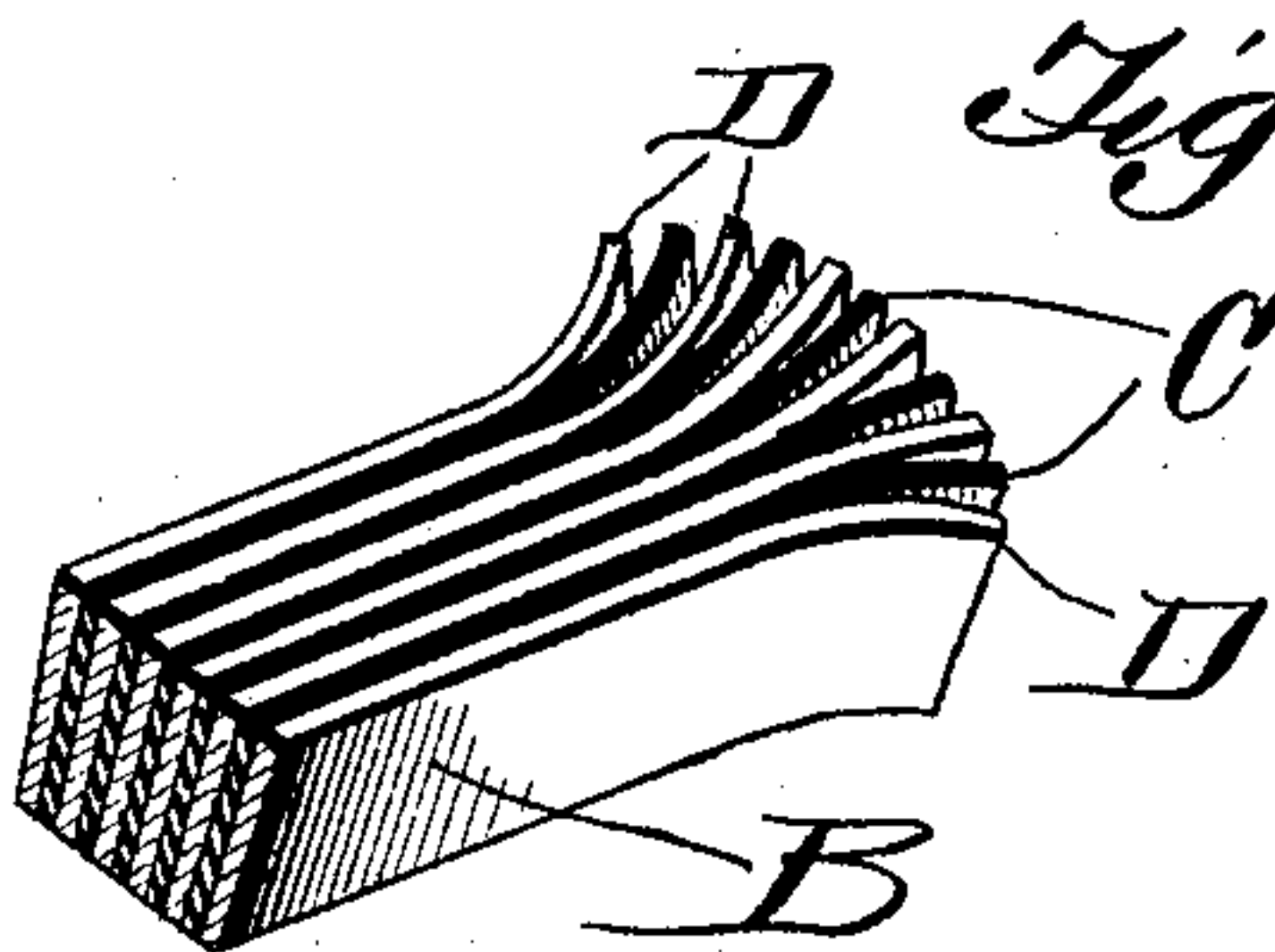


Fig. 3.



Witnesses

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# UNITED STATES PATENT OFFICE.

HENRY PETERSON, OF WILLACOOCHEE, GEORGIA.

## COTTON-GIN ROLLER.

No. 828,241.

Specification of Letters Patent.

Patented Aug. 7, 1906.

Application filed January 4, 1906. Serial No. 294,577.

*To all whom it may concern:*

Be it known that I, HENRY PETERSON, a citizen of the United States, residing at Willacoochee, in the county of Coffee and State of Georgia, have invented certain new and useful Improvements in Covers for Cotton-Gin Rollers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in covers for cotton-gin rollers; and the object in view is to produce a simple and efficient covering which will more effectually delint the cotton-seed without injury to the staple than coverings which are commonly in use.

More specifically, the invention consists in the provision of a covering for gin-rollers made up of a series of strips of woolen fiber and rubber which are alternately arranged with leather strips diagonally about the circumference of a roller, thereby producing a surface especially adapted for ginning the lint of long-staple cotton which has a large fuzzy seed and which at present is ginned by saw-gins and which have a tendency to cut the staple, thereby generally impairing the commercial value of the same.

My invention comprises various other details of construction and arrangements of parts, which will be hereinafter fully described and then specifically defined in the appended claim.

I illustrate my invention in the accompanying drawings, in which—

Figure 1 is a perspective view of a roller having applied thereto my improved covering. Fig. 2 is a cross-sectional view through the roller and covering, and Fig. 3 is an enlarged detail perspective view through one of the strips made up of alternate layers of rubber and woolen fiber.

Reference now being had to the details of the drawings by letter, A designates a cylinder of a gin, and B B designate strips made up of alternate layers of rubber (designated by

letter C) and woolen fabric, (designated by letter D.) Said strips, with the alternate layers of rubber and woolen fiber compressed into compact form, are fastened diagonally to the circumference of the roller upon edge, and E E designate leather strips which are alternately arranged between said strips of rubber and woolen fabric. If preferred, however, the entire circumference of the roller may be covered with the strips of rubber and woolen fabric and dispensing with the leather strips, although in my experiments I have found that there is an advantage in utilizing the leather strips alternating with the rubber and woolen.

Fastened about the circumference of the roller is a leather ring K, against which the adjacent ends of the strips, which are fastened diagonally about the circumference, abut.

By the provision of a roller having the cover shown and described I have found that the lint of seed-cotton may be taken off more quickly and cleaner than with the various other covers commonly in use. The woolen fiber being of an adhesive nature, the lint will more readily cling to it, thereby quickly removing the same from the seed and preventing the blade from cutting the lint, and by the dispensing with grooves about the covering any crimping of the lint of the cotton will be prevented, whereas with coverings now in use and provided with grooves the lint has a tendency to slacken as it passes over the grooves under the blade, which offers an opportunity for crimping and breaking of the cotton fibers.

What I claim is—

A covering for a gin-roller, comprising a series of strips made up of alternate layers of woolen fiber and rubber compressed into a compact form, and diagonally arranged about the roller of a gin, and leather strips alternately arranged between said rubber and woolen strips, as set forth.

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

HENRY PETERSON.

Witnesses:

W. H. DUNCAN,  
J. S. BOSTICK.