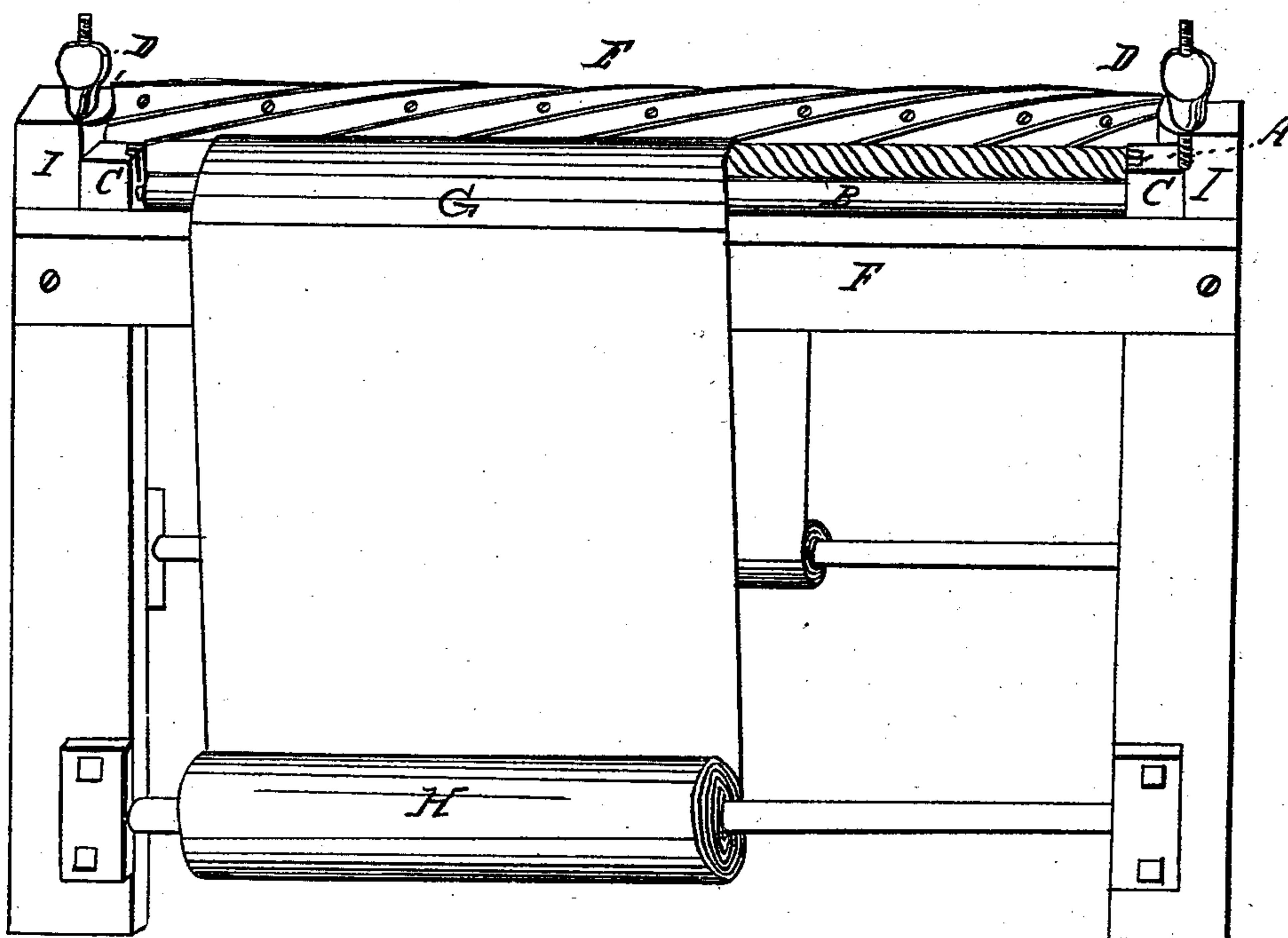


C. P. BARBER.
CLOTH SHEARING.

No. 2,996.

Patented Mar. 10, 1843.



UNITED STATES PATENT OFFICE.

CHARLES P. BARBER, OF WATERVLIET, NEW YORK.

METHOD OF SHEARING DIAMOND FIGURES OF CLOTHS, &c.

Specification of Letters Patent No. 2,996, dated March 10, 1843.

To all whom it may concern:

Be it known that I, CHARLES P. BARBER, of Watervliet, in the county of Albany and State of New York, have invented a new and useful Improvement in Figuring Woolen Cloth; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, making a part of this specification.

The nature of my invention consists in attaching to the common shearing machine a roller with threads winding spirally around it like a screw, over which the cloth passes while shearing, and then replacing it by another roller, with the threads running around in the opposite direction, over which the cloth is again passed, thus forming a diamond, in imitation of the diamond beaver cloths.

In constructing this improved apparatus I form a metal cylinder about $\frac{3}{4}$ of an inch in diameter, and as long as the machine is wide; around this cylinder are affixed spiral threads, having sharp edges projecting out from the roller about the eighth of an inch high; the roller then presents the appearance of a many threaded screw. Another roller is also formed, similar in all respects to that above named, except the direction of the threads of the screw which are wound around in an opposite direction, one of them being a right, the other a left-hand-screw. One of these rollers (marked A in the draw-

ing) is put into the machine, and is supported by a plain roller B, below, and forward of it, on which it rests; this roller is about one inch and three fourths in diameter. These rollers A and B have their journals turn in sliding boxes C, at each end, which are moved up and down inside of the posts I of the frame, by means of adjusting screws D. The rollers are thus brought nearer the revolving shears E. After the cloth has been sheared and dressed in the usual way it is rolled on the cloth beam H, the end passed up over the screw roller A and down between that and the shears onto a receiving roller on the other side; it is strained tight enough to sink the cloth in between the threads of the screw, which turns by the friction of the cloth upon it. It is then run through the machine and sheared in oblique lines; the roller A is then changed for the one having its screw in the opposite direction, when the cloth is again submitted to a second operation which forms upon it a perfect diamond.

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

The combination of the right and left hand screw rollers, for forming diamonds on cloth, constructed and arranged as herein set forth.

CHARLES P. BARBER.

Witnesses:

JONATHAN HART,
CHARLES SOUTHWICK.