

R. A. BRIGHT, Jr.  
CIGAR MACHINE.

No. 185,817.

Patented Jan. 2, 1877.

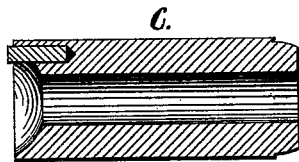


FIG. 2.

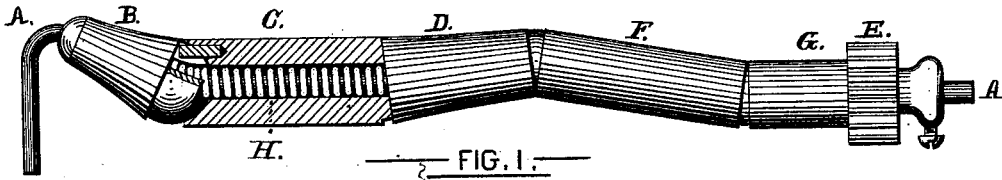


FIG. 1.

WITNESSES.

Eugene F. Warner  
Walter Blument

INVENTOR.

Richard A. Bright, Jr.

# UNITED STATES PATENT OFFICE.

RICHARD A. BRIGHT, JR., OF PROVIDENCE, RHODE ISLAND.

## IMPROVEMENT IN CIGAR-MACHINES.

Specification forming part of Letters Patent No. **185,817**, dated January 2, 1877; application filed October 24, 1876.

*To all whom it may concern:*

Be it known that I, RICHARD A. BRIGHT, Jr., of Providence, in the State of Rhode Island, have invented a new and useful Roll for Wrapping Cigars; and I do hereby declare that the following specification, taken in connection with the drawing, making a part of the same, is a full, clear, and exact description thereof.

Figure 1 is a view of my improved roll. Fig. 2 is a section of same.

One of the principal features in machines for wrapping cigars is the rolls which put on the wrapper. Much difficulty has heretofore been experienced in manufacturing cigars by machinery, on account of the liability of the rolls to twist the filler and tear the wrapper, and cigars having the usual contour of hand-made work have never been produced.

The object of my invention is to make a roll of such shape and constructed in such a manner that these difficulties in cigar machinery will be overcome, and consists in the invention hereinafter described.

Four of my improved rolls are used in each machine, and are so located with reference to each other that the interior space will correspond to the shape of the cigar which it is desired to produce.

A, Fig. 1, is an irregular arbor or core upon which is a series of collars or sleeves, B C D, connected together by knuckle-joints. The collars are connected with the gear-wheel E by other collars F and G, in the same manner. The collars B, C, and D together correspond in length to the length of the cigar to be produced, and the interior or concave surface to its contour. The collars B, C, and D

are connected so as to secure a continuous interior surface, in contact with the cigar at all times. The collars B, C, and D also vary in diameter, according to the variation in the diameter of the cigar to be made. This variation in diameter insures the wrapper from being torn and the filler from being twisted, for the reason that the collars, being adapted in size to the circumference over which they have to pass, must necessarily travel together, which is not the case with the rolls now in use.

In my invention, motion is imparted to the gear-wheel E, and communicated to the collars B, C, and D through the collars F and G, although the same may be done by other mechanical devices.

Upon the core A is a spiral bearing, H, which, although not a necessary part of the device, contributes to the smoothness of its operation.

The number of collars which go to make up the length of the cigar may be increased as they are decreased in width, three sections, however, being sufficient.

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

The within-described roll for wrapping cigars, constructed with an irregular core, A, and having thereon a series of collars, B C D, of different diameters, connected together by knuckle-joints and with the operating gear-wheel by collars F G, substantially as and for the purposes specified.

RICHARD A. BRIGHT, JR.

Witnesses:

EUGENE F. WARNER,  
WALTER B. VINCENT.