

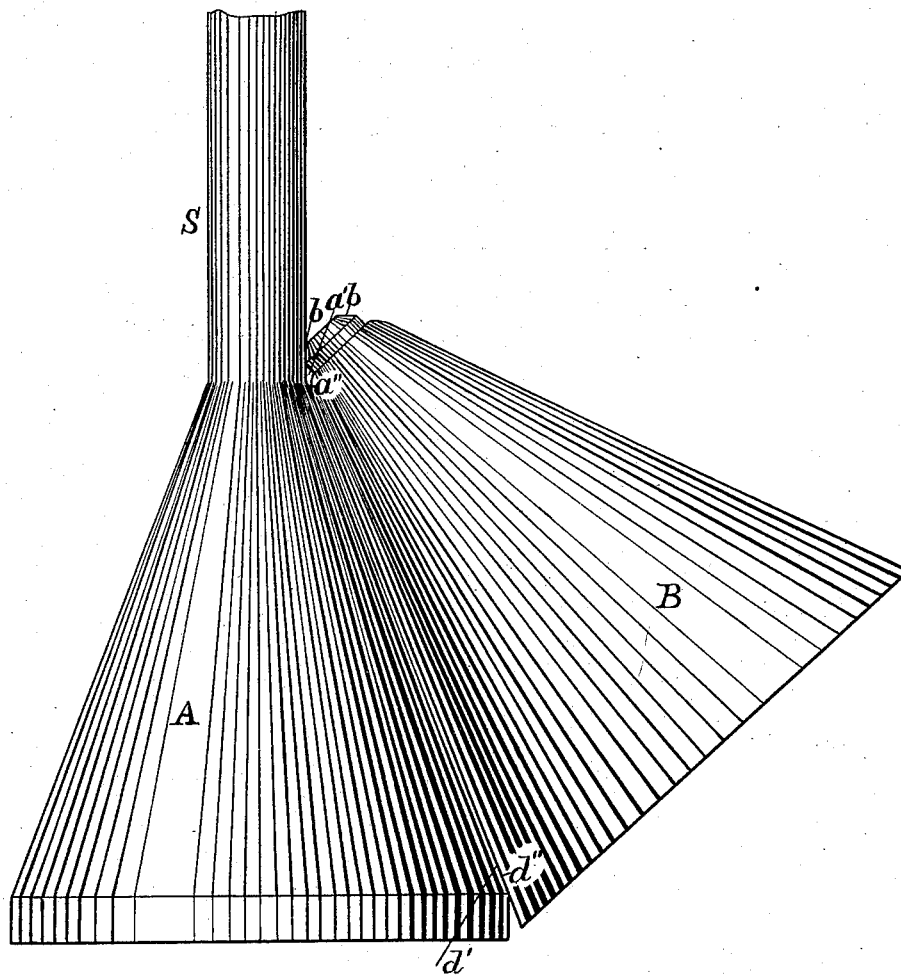
(No Model.)

A. F. ROBB.

CONICAL PRESSER FOR BOBBIN WINDING MACHINES.

No. 307,144.

Patented Oct. 28, 1884.



Witnesses:

Charles S. Brintnall
Sam A. Saxe

Inventor:

Andrew Francis Robb
by W. C. Hagan
his atty

UNITED STATES PATENT OFFICE.

ANDREW FRANCIS ROBB, OF NEW BRUNSWICK, NEW JERSEY, ASSIGNOR
TO TOMPKINS BROTHERS, OF TROY, NEW YORK.

CONICAL PRESSER FOR BOBBIN-WINDING MACHINES.

SPECIFICATION forming part of Letters Patent No. 307,144, dated October 28, 1884.

Application filed March 27, 1882. (No model.)

To all whom it may concern:

Be it known that I, ANDREW FRANCIS ROBB, of the city of New Brunswick, county of Middlesex, and State of New Jersey, have invented a new and useful Improvement in Conical Pressers for Bobbin-Winding Machines, of which the following is a specification.

My invention relates to improvements in conical pressers for bobbin-winding machines; and it consists in forming or providing the conical presser with a circular groove extending entirely around it near its apex, as hereinafter will be more fully stated.

In cone-winding machines, by reason of the speed given to the bobbins or of the bearings becoming worn by use, there are resultant vibrations, so that at the point where the end or beveled surface of the apex of the conical presser comes in contact with the barrel of the bobbin there is impingement of the parts, and a consequent tendency to flatten or break the yarn, especially when the finer grades are being wound; hence the object of my improvement is to prevent the yarn from being pounded off and broken between the bobbin and the end of the conical presser by the vibrations of the bobbin against the surface of the conical presser when the yarn is being wound onto the bobbin at or about the point of contact of the apex of the conical presser and the stem of the bobbin.

The means employed to effect the objects intended are illustrated in the accompanying

drawing, forming a part of this specification, wherein the letter A represents a bobbin-cone, and the letter S represents the barrel or stem of the bobbin.

The letter B represents the conical presser, formed with a circular groove, *a'*, extended entirely around it near its apex, substantially as shown. Now, when the beveled surface *b* of the apex of the conical presser comes in contact with the barrel of the bobbin at the point *a'*, for instance, the yarn is not impressed by the contact of the parts, but finds a passage or guide at this point between the conical presser and the barrel of the bobbin through the groove *a'*, and is thus prevented from being flattened or broken by the vibrations or poundings arising from the causes stated hereinbefore.

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

1. A conical presser, B, having the groove or recess *a'* formed around the same near its apex, for the purpose stated,

2. The combination of a bobbin-cone with stem or barrel S and conical presser B, provided with the circular groove or recess *a'* near its apex, substantially as described.

Signed at New Brunswick, New Jersey, this 27th day of February, 1882.

ANDREW FRANCIS ROBB.

Witnesses:

EDWARD W. VAIL,
CHAS. E. SPENCER.