

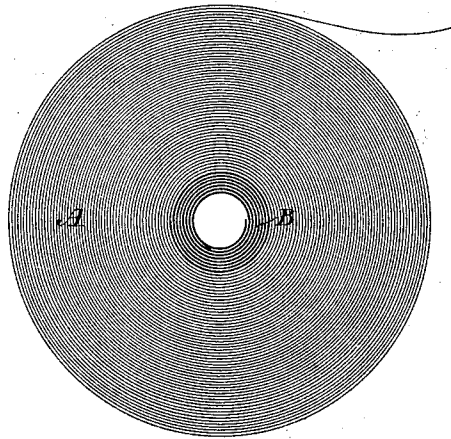
(No Model.)

H. F. CLARKE.

WINDING ROLLS OF TELEGRAPH PAPER.

No. 309,332.

Patented Dec. 16, 1884.



WITNESSES

Wm A. Skinkle
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UNITED STATES PATENT OFFICE.

HENRY F. CLARKE, OF BROOKLYN, NEW YORK, ASSIGNOR OF ONE-HALF TO
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WINDING ROLLS OF TELEGRAPH-PAPER.

SPECIFICATION forming part of Letters Patent No. 309,332, dated December 16, 1884.

Application filed November 30, 1883. (No model.)

To all whom it may concern:

Be it known that I, HENRY F. CLARKE, of the city of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in the Winding of Rolls of Telegraph-Paper, of which the following is a specification.

My invention refers more particularly to the paper used in printing-telegraph instruments. It has been found by experience that in the transportation of this paper in its ordinary form of roll, having a hole in the center to admit of its being placed upon the spindle of a reel, the said rolls often became crushed, and consequently useless, on account of their then irregular shape. To obviate this difficulty it has been the practice either to place in this hole a block of wood of exactly the proper size, which by its resistance to pressure prevents any damage to the rolls in transportation, as aforesaid, or else to wind the paper directly upon a wooden hub, to which it is secured. In this case the hub remains in the roll of paper and is used as its center while the paper tape is being used in the instrument. In practice the use of these blocks gives rise to great annoyance, as it is found that, even when perfectly made, their size and shape are subject to atmospheric changes which prevent the roll from turning regularly. In other cases the blocks shrink after the paper has been wound upon them, making it necessary to tighten them by hand in each roll. I have found that

in winding this tape directly upon the mandrel of a machine, if mucilage, paste, glue, or its equivalent be applied to the surface of the tape constantly until, say, about twenty-five turns are made, the immediate center of the roll after drying becomes sufficiently hard to answer the same purpose as the block, while free from many of its objections.

I am aware that mucilage or other adhesive substances have long been used to secure the end of the paper; but what I claim as new is its use in building up a hub of sufficient density to render unnecessary the wooden block, as aforesaid.

In the accompanying drawing, which illustrates my invention, A represents a roll of paper, and B that portion of the same which has been solidified by the use of mucilage or glue, as described.

I claim as my invention—

As a new article of manufacture, a roll of telegraph-paper having any desired number of its central convolutions glued together for the purpose of forming a sufficiently substantial hub, as heretofore described.

In testimony whereof I have hereunto subscribed my name this 28th day of November, A. D. 1883.

HENRY F. CLARKE.

Witnesses:

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