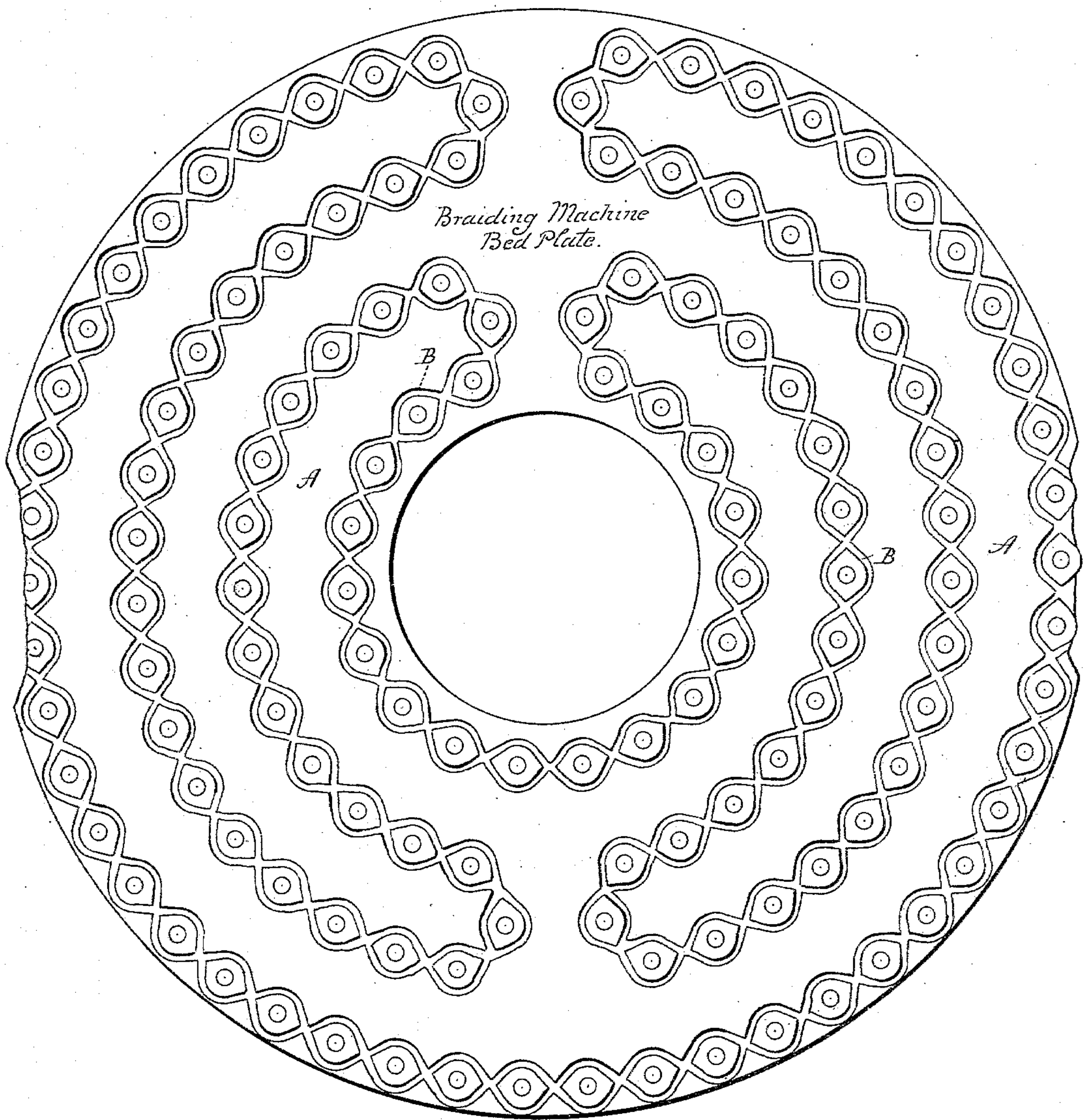


(No Model.)

W. C. FISHER
BRAIDING MACHINE.

No. 552,994.

Patented Jan. 14, 1896.



Witnesses:

J. H. Shumway
Lillian D. Keebey.

William C. Fisher
Inventor.

By Atty. Earle Heyman

UNITED STATES PATENT OFFICE.

WILLIAM C. FISHER, OF MIDDLETOWN, CONNECTICUT, ASSIGNOR TO THE
RUSSELL MANUFACTURING COMPANY, OF SAME PLACE.

BRAIDING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 552,994, dated January 14, 1896.

Application filed July 22, 1895. Serial No. 556,730. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. FISHER, of Middletown, in the county of Middlesex and State of Connecticut, have invented a new Improvement in Braiding-Machines; and I do hereby declare the following, when taken in connection with the accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification and represents a plan view of a bed-plate containing a concentrically-folded series of race-circles arranged in accordance with my invention.

My invention relates to an improvement in braiding-machines, the object being to produce a machine capable of producing braided tubes of larger size than has been practicable heretofore.

With this end in view my invention consists in a bed-plate for braiding-machines, the said plate being constructed with a continuous folded line of race-circles forming a compacted path for the thread-holding bobbins.

In carrying out my invention I employ a braiding-machine of any approved construction of the class in which a series of gears are employed to propel a series of bobbins through intersecting race-circles, either arranged in a continuous simple circular line, as when the machines are designed to produce solid cords or small tubes, or arranged so that the ends of the line do not merge into each other, as when flat braiding is designed to be produced.

These machines are too well known in the art to require illustration. I provide such a machine with a bed-plate A, having a folded line of intersecting race-circles B, through which the yarn or thread holding bobbins, which are not shown, but which are of ordinary construction, are propelled by the usual means in a serpentine course crossing each other's paths, and interlacing or plaiting the threads. By folding the line of race-circles upon itself

I am enabled to produce a machine capable of turning out tubes of great size, while at the same time the machine is comparatively compact, which is important on account of economy of space, but not less so on account of the difficulties encountered when the thread has to travel for a considerable distance after leaving the bobbin and before it is incorporated into the fabric being produced.

It is apparent that in carrying out my invention the particular mode of folding the line of race-circles upon itself may be varied, and that the number of folds will depend upon the size of the machine and upon the size of the tubes to be made. As herein shown, the line of race-circles is folded concentrically upon itself, by which I mean that the adjacent folded portions of the line have nearly the same curvature, the difference in the curvature of one of such portions from the curvature of the other being represented by the differences in the size of the two circles of which they form segments. I would therefore have it understood that I do not limit myself to the construction herein shown and described, but hold myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of my invention.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A braiding-machine bed-plate having a continuous line of intersecting race-circles, the said line being folded upon itself and forming an endless race through which the bobbins pass in the production of tubular fabric, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WILLIAM C. FISHER.

Witnesses:

HENRY W. HUBBARD,
LOUIS DEK. HUBBARD.