

R. V. DeGuinon,
Paper Twine Mach.

No. 99,654.

Patented Feb. 8. 1870.

Fig. 1.

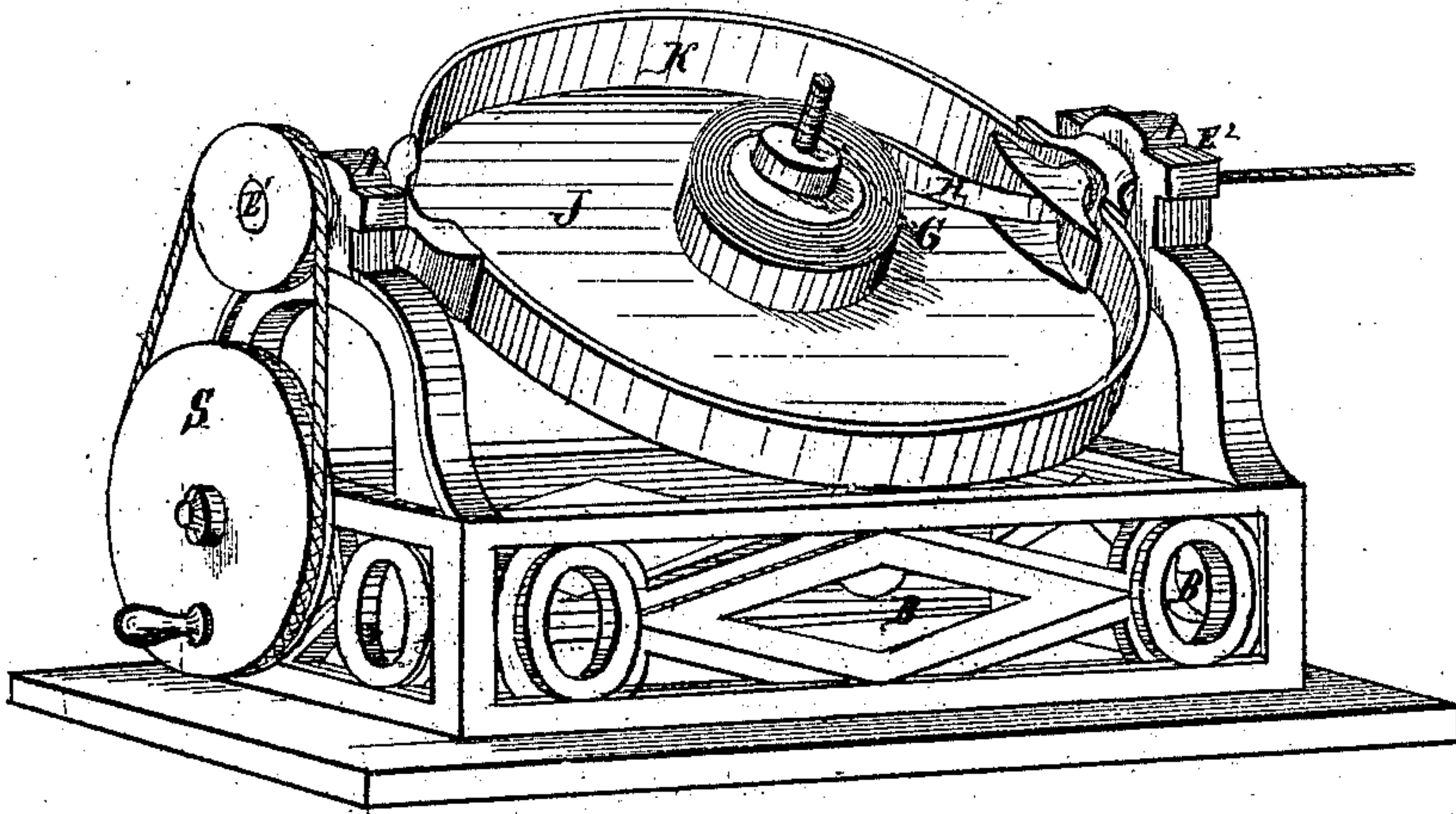


Fig. 2.

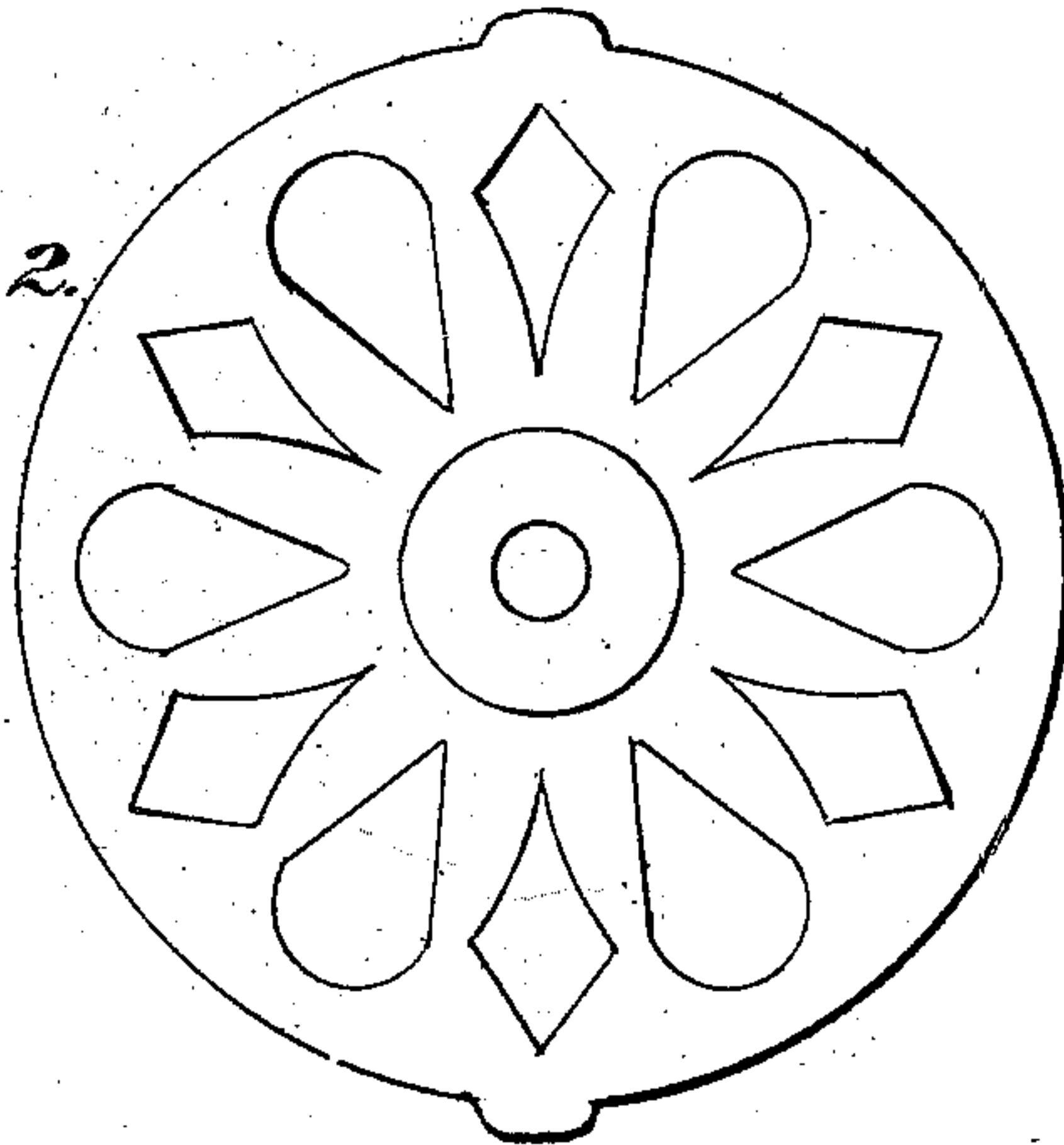
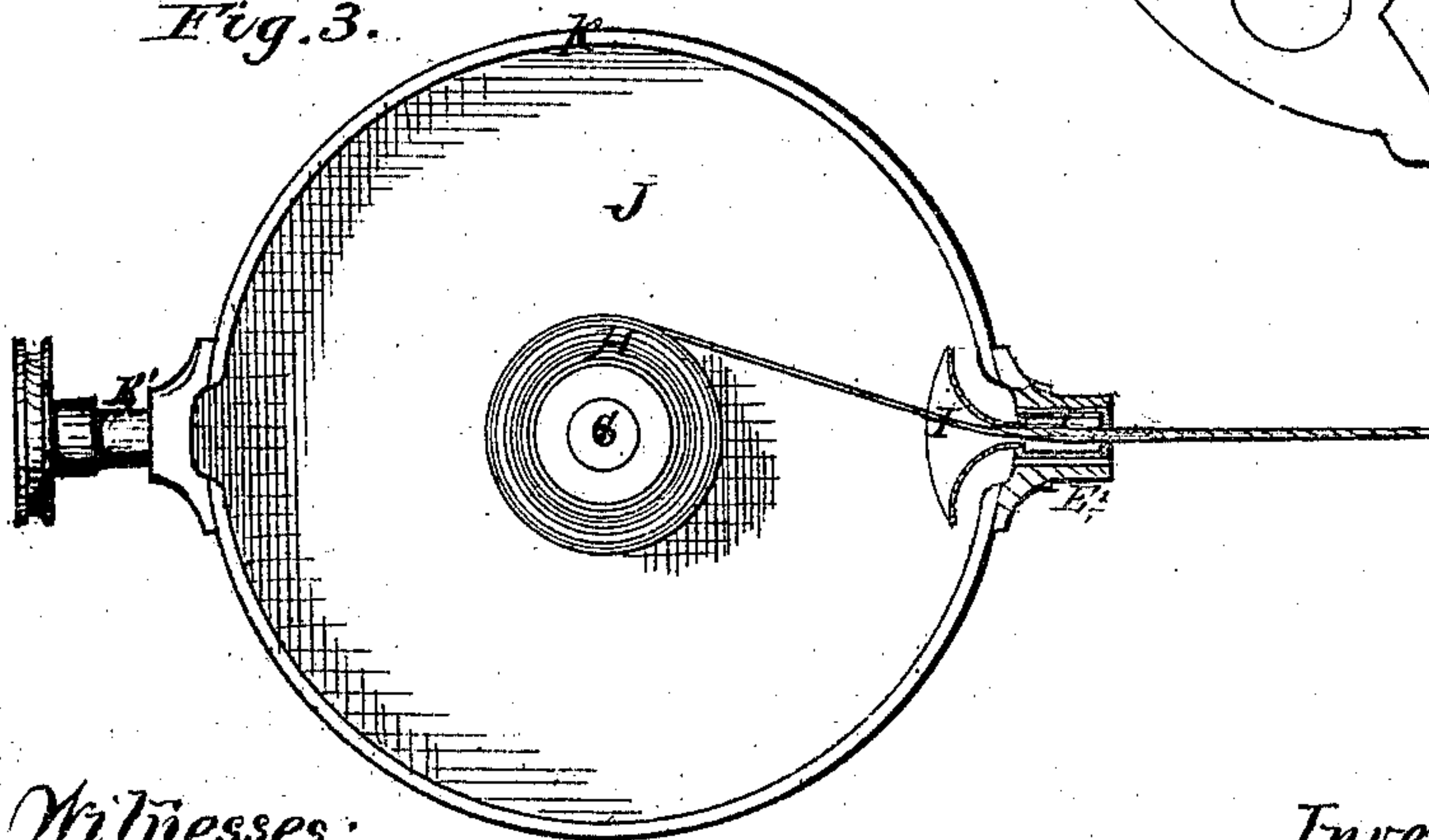


Fig. 3.



Witnesses:

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United States Patent Office

R. V. DE GUINON, OF SOUTH BERGEN, NEW JERSEY.

Letters Patent No. 99,654, dated February 8, 1870.

MACHINE FOR MAKING PAPER TWINE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, R. V. DE GUINON, of South Bergen, in the county of Hudson, and State of New Jersey, have invented a new and useful Machine for Making Paper Twine; and I do hereby declare that the following is a full and exact description thereof, reference being made to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in a machine for making paper twine, constructed of a disk of metal, with a rim of iron cast or soldered thereto, so as to resemble a round pan or dish, with vertical sides, and having a cover secured to it, by means of a thumb-screw. The bottom and cover are carved in any design of openwork, to render them light, and are lined with tin on the inside, and there are journals on opposite sides of the rim, on a line with the centre, and upon which the disk revolves. In the centre of the disk is a post, upon and around which the coil of paper is placed, the said coil of paper being similar to those used for telegraph-purposes, but not of the same material. The paper used for making paper twine is made from manilla, and is very light and strong.

The strips or ribbons are cut about three-quarters of an inch in width, and one or two thousand yards in length. These strips or ribbons are coiled as they are cut, and when the rolls are of sufficient diameter, the ends are secured, and they are placed on tables, ready for the machine. In order to make the twine, a coil of paper is placed within the disk, the end is twisted with the fingers, forming a section of the twine, and is then passed through one of the journals made hollow for that purpose, and having a small tube therein with an opening of the exact size of the twine. The cover is now placed thereon, and made fast by means of the thumb-screw. The machine is now set in motion, the disk revolving with the coil inside.

An apparatus is to be employed for drawing the twine out, not shown in the drawing, at the rate of one inch to each five revolutions of the disk, and this continues until the whole coil is converted into twine.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct my machine of cast or wrought-iron, (see Figure 1, which is a perspective view.)

B B is the frame-work, for supporting the disk J, having boxes A A for the journals E¹ E² to work in.

The cover F is made detachable, in order to put the coil of paper in the disk, and when put on, is secured by means of the thumb-nut fitting the screw G.

The journal E² is made larger than the journal E¹, and is cored and turned out, in order to receive the tube I, through which the paper passes.

The hole in the tube I corresponds with the size of the cord to be made.

The disk J is made with a rim, K, the said rim being about one-eighth of an inch higher than the width of the paper to be made into twine, so that the same may work freely around on the inside, as the twine is formed.

The inside is lined with tin, on the bottom and top, to afford a smooth surface for the paper to move against.

On the end of the journal E¹, a small pulley is arranged, and connected by a band with the driving-pulley S, to rotate the disk.

Having thus constructed my machine, it will be seen, that having placed the paper in the disk J, as herein described, and passed the end through the tube I, (see Figure 3,) and caused the machine to be set in motion, and taken hold of the paper issuing from the tube I, cord will be formed at the rate of one inch to every five revolutions of the disk J.

Having thus fully described my invention,

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

The disk J, provided with journals E¹ E², turning in bearings A A, the journal E² having an opening bored through it to receive the tube I, the bore of which is made of the exact size of the cord to be produced, and the whole constructed and operating substantially as described.

R. V. DE GUINON.

Witnesses:

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