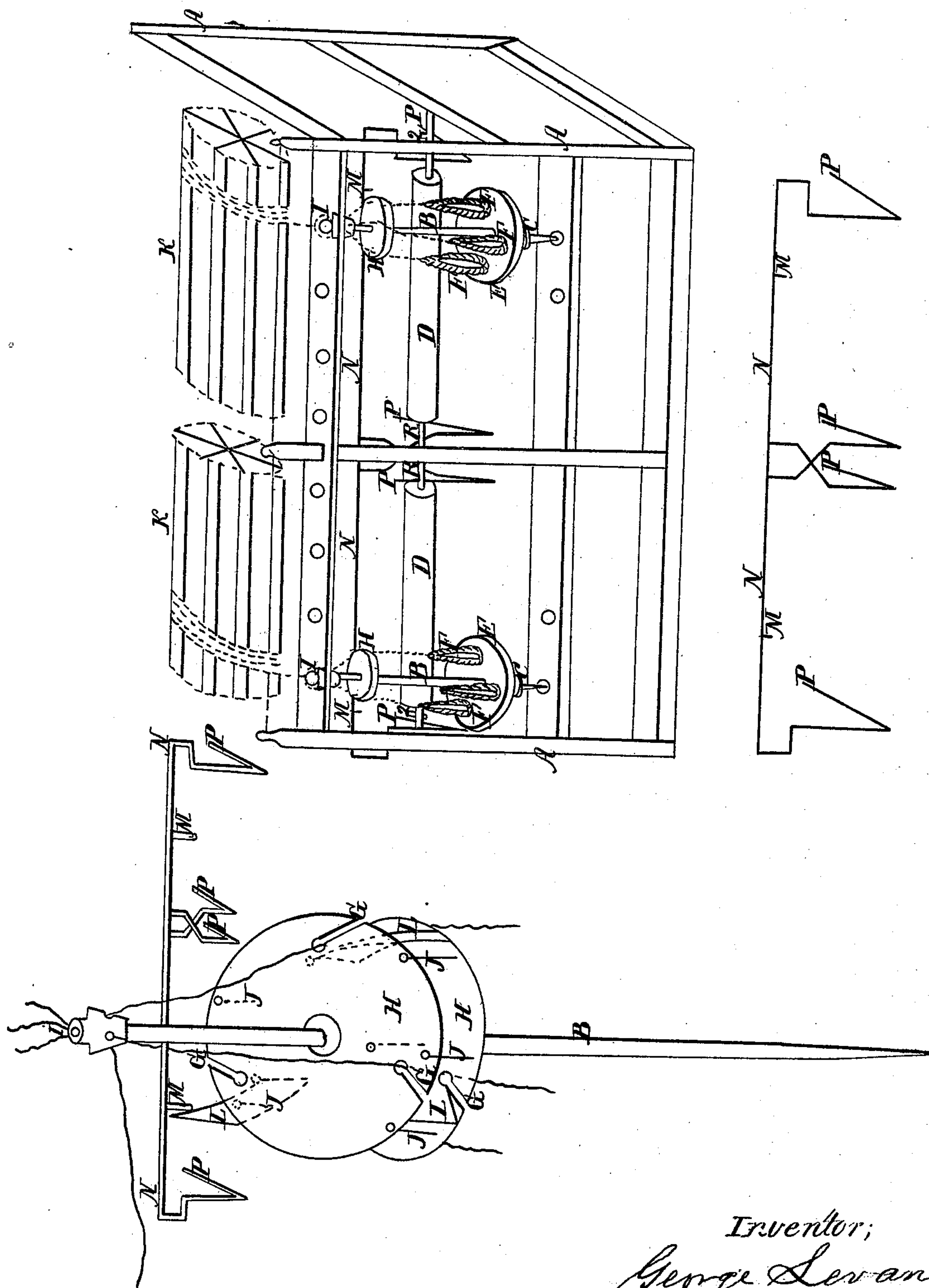


G. Levan.
Reeling Mach.

Nº 10,599.

Patented Mar. 7, 1854.



Inventor;
George Levan

UNITED STATES PATENT OFFICE.

GEORGE LEVAN, OF WEST EARL TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA.

REELING-MACHINE.

Specification of Letters Patent No. 10,599, dated March 7, 1854.

To all whom it may concern:

Be it known that I, GEORGE LEVAN, of West Earl township, county of Lancaster, and State of Pennsylvania, have invented
5 new and useful Improvements in Doubling, Twisting, and Reeling Machines; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and
10 to the letters of reference marked thereon, making a part of this specification.

The nature of my invention is a double disk with hinged wings to keep the threads stretched in combination with the sliding
15 rail to stop any one division of the spindles.

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

A is the frame work.

20 B, is the spindles provided with pulleys. C, driven by bands from a horizontal drum D in the usual manner of driving spindles. On each of these spindles there is a disk E provided with two, three or more vertical
25 pins on which turn freely the bobbins F, and from these bobbins the threads pass through guides or slanting apertures G (in a double disk H) above and corresponding with the bobbins F, and from these all the
30 threads pass through a center guide I at the head of the spindle, where the threads pass into holes or apertures, and are united and twisted together by the rotation of the spindle B. The threads then pass over
35 proper guides to the reel K back of the spindles on which the hanks or skeins are formed. This double disk H is formed of two metal plates soldered fast in their centers to the shaft or spindle B having six or

more vertical pins or upright posts J divid- 40
ing the plates H, and between two of the pins J each thread passes, there being two pins J for each thread. A lever or wing L operates on a hinge between two of the pins J, for the purpose of keeping the threads 45
properly stretched and also when a thread is broken or bobbin empty, the lever or wing L flies back against one of the pins J by the revolution of the double disk H, and is brought in contact with a projection M 50
upon the sliding rail N which stops the spindles and reel of one division, without delaying the operation of the remaining division and spindles. The sliding rail N extending along the length of machine having 55
a projection M opposite to each spindle. The ends of sliding rail N extend downward, and each end is attached to horizontal levers P which throw the spindle and reel, viz, one whole division out of gear, by the 60
lever P being operated upon by being pressed downward by the pin Q (which unclutches the drum D) running through the main shaft R, while the opposite lever P draws the rail again back to its proper place, 65
by shifting the drum D. The drum D revolves independent of the shaft.

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

The double disk H, as constructed with 70
hinged wings L for the purpose of keeping the threads regularly stretched, and operating the sliding rail N when one of the threads is broken in the manner described.

GEORGE LEVAN.

Witnesses:

W. T. AMWEG,
H. S. MYERS.