(12) **United States Patent**
Burdick

(10) **Patent No.:** **X4131**
(45) **Date of Patent:** **May 30, 1825**

(54) **SPINNING, ROPING,WOOL & COTTON**

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Letters Patent

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Francis Dunlick himself of his improvement in a machine for roping and spinning wool & cotton & reeling

This machine consists of a box or chest, on the top edge of the box or chest there may be a cutter or a tongue for a carriage or gripe to move on, on the top of the box near the end is placed in a horizontal position, spindles, and on the point of the spindles is placed a burr. These burrs may be made of metal, wood, or leather: the burrs being fastened on the ends of the spindles will cause the yarn to keep in its proper place while spinning; or the points of the spindles may be turned one side, or there may be spools in place of spindles with a burr or wires, put in the end of them, to keep the yarn to its place. the throws may be drawn in a right line with the spindles or spools. Near the butt end of the spindles or spools, are placed wheels, and in a right line with the wheels, across the spindles or spools on the side of the box or chest are placed perpendicular arms, rising above the edge of the box or chest and near the top of these arms runs a spindle, and on this spindle wheels are placed with bands passing from them to the wheels on the spools or spindles, & on the end of this spindle outside of the arm, a wheel is placed with a band passing from it to the rim hung on the same side of the machine; or the spindles may be placed under the spools or spindles and pass through the sides of the box or chest, or on the end of the spindle a cog wheel may be placed for a strap running to the rim on the same side of the machine.— This rim is placed on the axle passing through near the centre of the machine, and on the other end of the axle a crank is placed to put the machine in motion. In the box or chest on the axle, two hubs or rollers are placed, one of these hubs or rollers is stationary. in the end of this hub are holes to receive a pin or point which is fastened into the loose hub and on

Francis Sardick — Improvement in the machine for Roping & Spinning Hool & Cotton & Rotting

Patented May 30. 1825

See Vol. 24. p. 1. of Rol. Patents.

To all to whom these Letters Patent shall come, be it known that I [illegible] of the City of [illegible] in the County of [illegible] and State of [illegible] have invented a new and useful machine for roping and spinning hool and cotton and rotting [illegible] which I do hereby declare to be described in the following manner and represented in the accompanying drawings, making part of this specification.

See p. 33 [illegible]

The frame to which the wheels are attached is constructed in the following manner. Two sides, ends and bottom pieces are framed together in the usual manner with mortises and tenons, the sides being made double, that is, of two pieces each, and the ends of the same width as the sides and two inches thick, and the bottom pieces of the same width and three inches thick, and that the top of the sides which is provided with bearings for the axles to project six inches at the ends.

The wheels run on cast iron axles and the axles are in the same direction as the crank shaft is connected. Two wheels together and to support the wheels the machine is constructed in the following manner. A piece of plank is sawed in two, and diagonally, which is called an elbow, one of the pieces of which is placed on the side of the frame with the axle of the wheel close to the end of the frame, this axle immediately under this piece is sawed, and an iron collar surrounding the arrow is screwed or bolted to the plank, which on each side of the arrow, which is permanent in the end and in the arrow No. 2. is another piece of plank of equal dimensions; it extends diagonally from the round piece No. 1. which is mortised to the axle of the wheel close to the end where it is mortised [illegible] No. 3. is a plank of equal dimensions, one end of which is mortised to No. 2. as aforesaid; this piece forms with No. 2. an angle of 30 degrees, the other end of which diagonally towards the front of the rear side of the carriage, in a line with the front of the arrow No. 1. of the same width and thickness. No. 4. has one end of which is mortised to the round piece No. 1. at a right angle with it, and the other is mortised to No. 3. which it crosses at right angles. From the piece No. 2. at the distance of [illegible] inches from No. 1. is another piece of plank of equal width and thickness extending from No. 2. to No. 4. and mortised to each of them. This piece No. 5. supports the centre of the axle of the wheel by means of a