Sheet 1-2 Sheets.

F. McCully, Jr.

Spinning Mach.

No. 3,801. Patented Oct. 19, 1844.

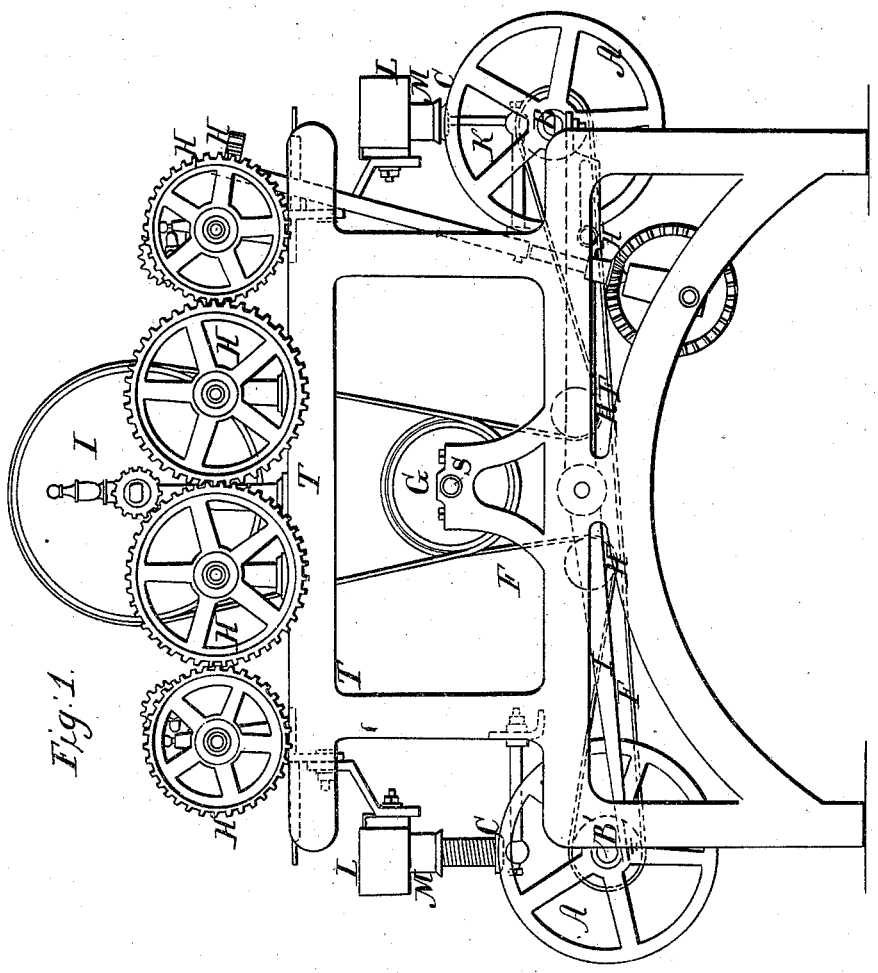

Fig. 1.

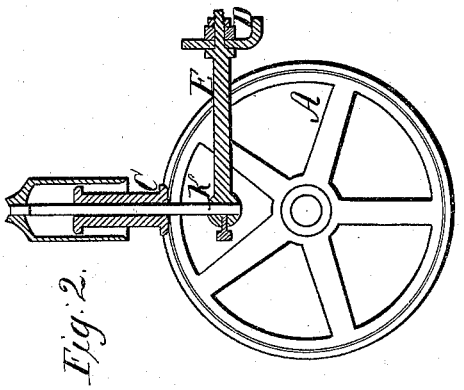

Fig. 2.

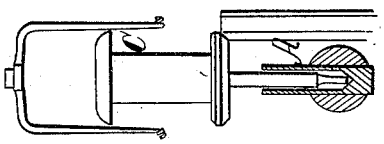

Fig. 3.

Sheet 2.-2 Sheets.

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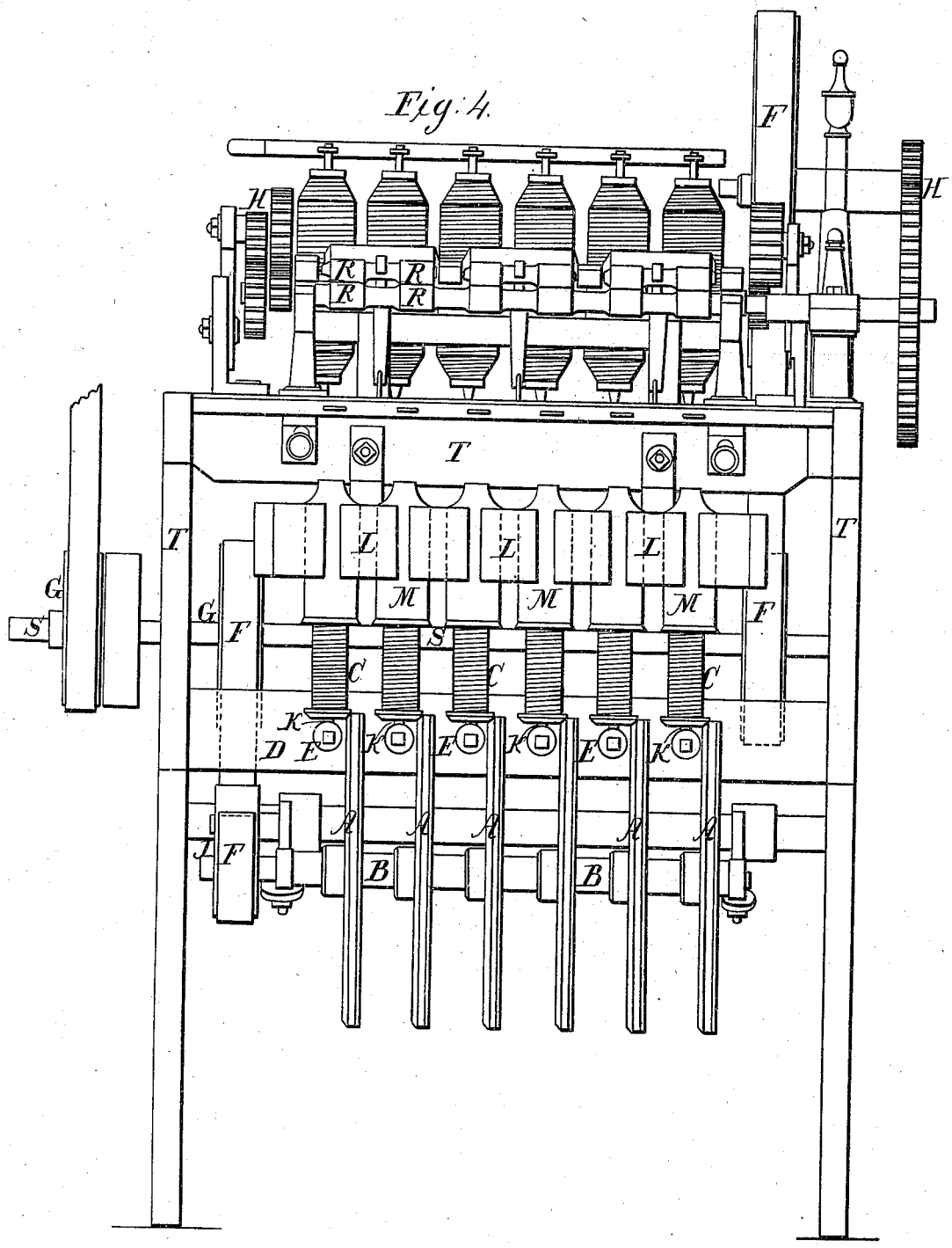
Fig. 4.



UNITED STATES PATENT OFFICE.

FRANCIS McCULLY, JR., OF PATERSON, NEW JERSEY.

METHOD OF OPERATING BOBBINS IN MACHINERY FOR SPINNING FIBROUS SUBSTANCES.

Specification of Letters Patent No. 3,801, dated October 19, 1844.

To all whom it may concern:

Be it known that I, FRANCIS McCULLY, Jr., of the town of Paterson, in the county of Passaic and State of New Jersey, have invented a new and useful Improvement in Machines for Spinning, which is described as follows, reference being had to the annexed drawings of the same, making part of this specification.

Figure 1 is a side elevation of a common spinning machine to which I have applied my improvement. Fig. 2 is a vertical section through the bobbin and cap and bars D and E, showing the propelling wheel A upon which the bobbin C rests. Fig. 3 shows one of the bobbins, a live flier and part of the propelling wheel. Fig. 4 is a front elevation of the machine represented by the side elevation Fig. 1.

The frame T, the driving shaft S to which the power is applied, the driving pulley G, the band or belt F, gearing H, fly wheel I, spindles K, tin guards L, cap M, rollers R, being made in the usual, or most approved manner, need not therefore be particularly described.

My improvement consists in giving to the bobbins, fliers and spindles the required rotary and traversing motion by causing the bobbins to rest on the peripheries of wheels arranged on a horizontal traversing shaft or shafts.

I place a wheel A, or a series of wheels A A &c., on a horizontal revolving traversing shaft B or shafts and bring the periphery or peripheries of said wheel or wheels in contact with the periphery or peripheries of the bobbin or bobbins C C &c., which may be beveled, or otherwise shaped, or may be left smooth, or made rough; or covered with any suitable substance for producing the necessary adhesion of the parts to convey the motion required. The position of the aforesaid horizontal shaft B or shafts should be directly under or nearly under the centers of the spindles; and the said shaft or shafts should have a vertical traversing movement for distributing the yarn or threads on the bobbins, produced by an oscillating mangle wheel, or other traversing apparatus.

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

Giving to the bobbins the required rotary and traversing motion as herein described by causing them to rest on the peripheries of wheels arranged on a horizontal traversing shaft, whether applied to the cap frame, live spindle throttle, or other modes of spinning substantially the same in which the bobbins receive rotating and traversing motions.

FRANCIS McCULLY, JR.

Witnesses:
WM. P. ELLIOT,
EDW. MAHER.