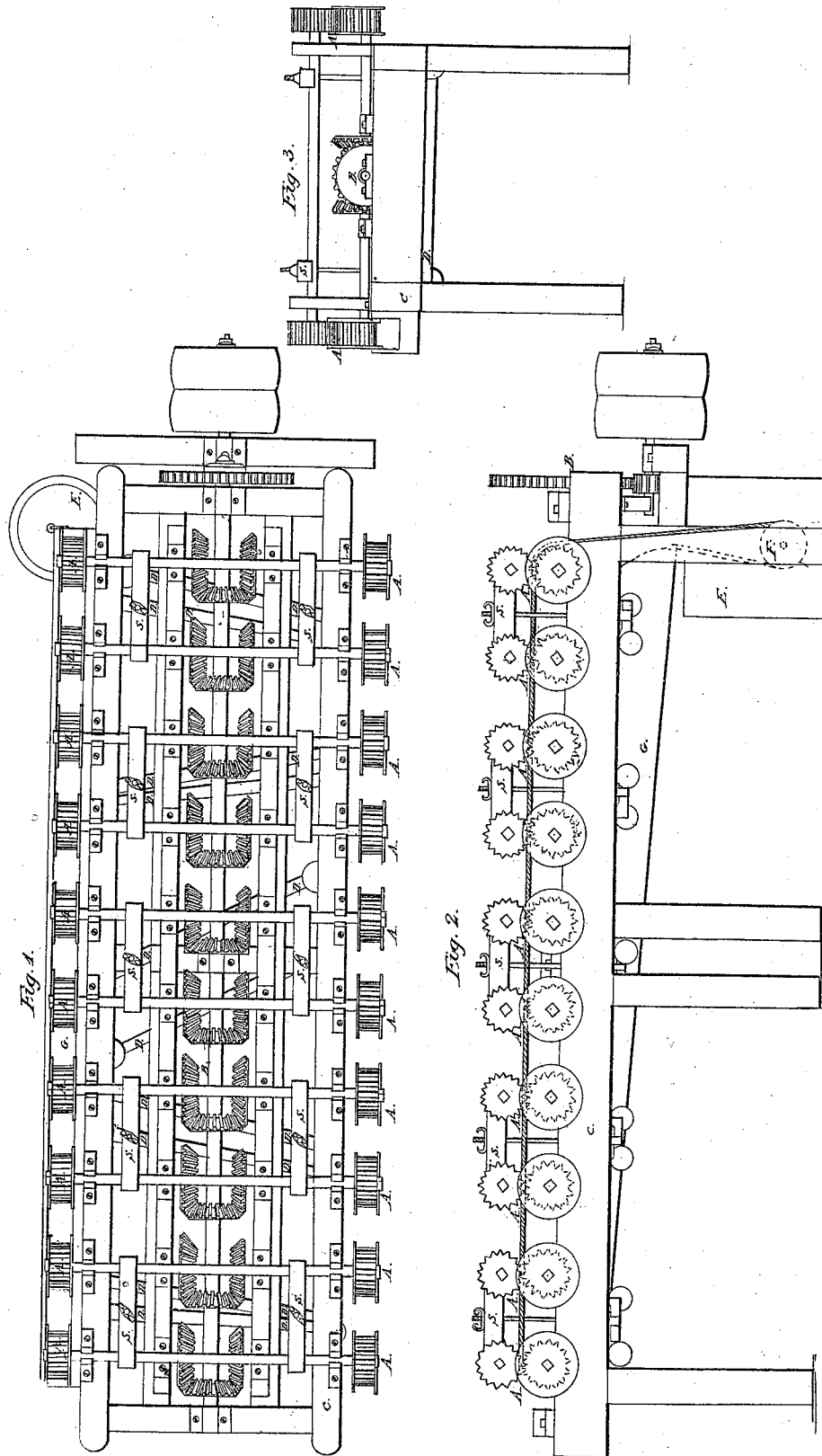


S. Olcott.
Machine for Preparing Yarn.

N^o 1,549.

Patented Apr. 11, 1840.



UNITED STATES PATENT OFFICE.

SANDS OLCOTT, OF PHILADELPHIA, PENNSYLVANIA.

MACHINE FOR WASHING AND CLEANSING YARN.

Specification of Letters Patent No. 1,549, dated April 11, 1840.

To all whom it may concern:

Be it known that I, SANDS OLCOTT, late of New Hope, now of the city of Philadelphia and State of Pennsylvania, have invented a new and useful Machine for Washing and Cleansing Various Descriptions of Yarn and other Substances.

The nature of my invention consists in the construction of a machine, with a number of fluted rollers, arranged in pairs, and driven at an equal speed, with flanges on one of each pair, so that the nether roller works within the flanges of its mate and so arranging the machine that the material to be washed can be passed between the rollers, and at the same time be passing through water or other liquid for washing.

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

A, in the annexed drawing, represents a series of twenty pairs of fluted rollers, six inches in diameter, and two and a half inches thick, with the flanges on the lower rollers ten inches in diameter, and all set in motion by the main shaft B. These rollers are all fixed at equal distances from each other in the frame work C, with the bearings on the roller shafts inside of the rollers, so as to allow the rollers to be outside of the frame work. To each pair of these rollers is attached a saddle S, and lever D, which presses the rollers together, but allows them to rise and fall as required, during the working of the machine. At one end of the machine is the reservoir E, containing water, or other liquid for cleansing, with the pulley F, fixed to the bottom of it.

The operator should convert the yarn or other substance to be washed, into an end-

less skein, and pass one side of the skein between the rollers A, and the bight over the pulley F, at the bottom of the reservoir containing the water, or other liquid. The machine is then set in motion, and the skein is passed from one pair of rollers to the other, and at the same time through the liquid, and continues its operation until the work of cleansing is complete.

The trough G, extends from one end of the framework to the other, underneath the rollers, so that it will carry the liquid which the rollers squeeze out from the material back to the reservoir. By this operation it will be perceived that the material being washed is continually being immersed in the liquid, and as often squeezed dry and washed by the rollers. The liquid taking with it a portion of the soluble matter, at each revolution of the skein, the pressure to be given to the rollers should be regulated in proportion to the delicacy of the material to be washed. The size of the flutes in the rollers should be regulated by the thickness of the skein to be cleansed.

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

The construction of a machine for washing yarn and other substances, by means of a series of pairs of fluted rollers, with flanges on one of each pair, in combination with the reservoir, and trough, so that an endless skein can be passed continually through them, and at the same time be passing through the water or other liquid for washing, as herein described.

SANDS OLCOTT.

Witnesses:

SARAH OLCOTT,
J. HOPSON.