9022X

G. Gay.

Silk Winding Mach.

Patented Aug. 17, 1835.

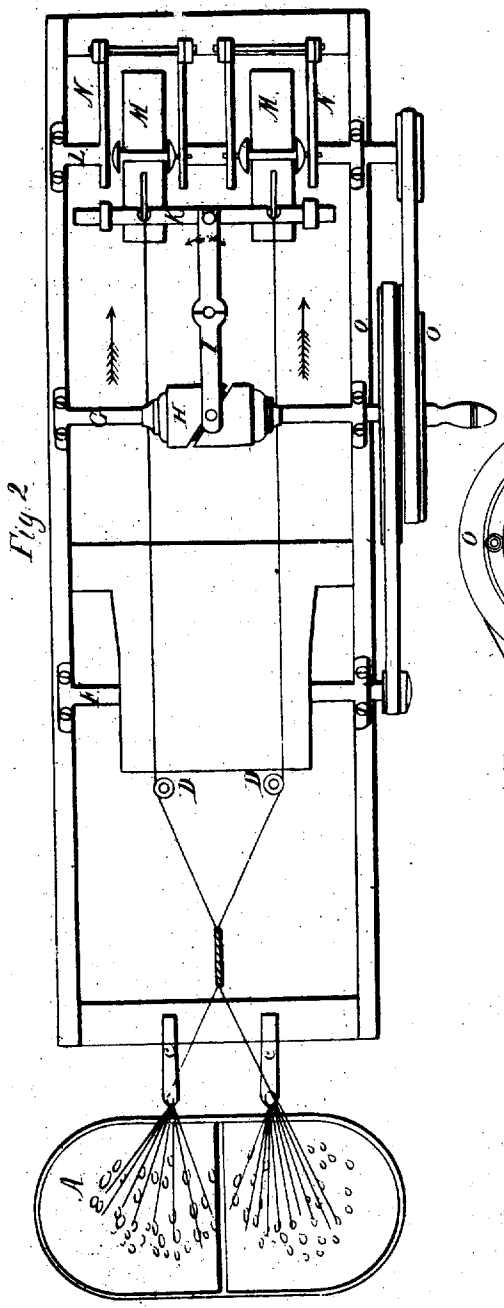


Fig. 2

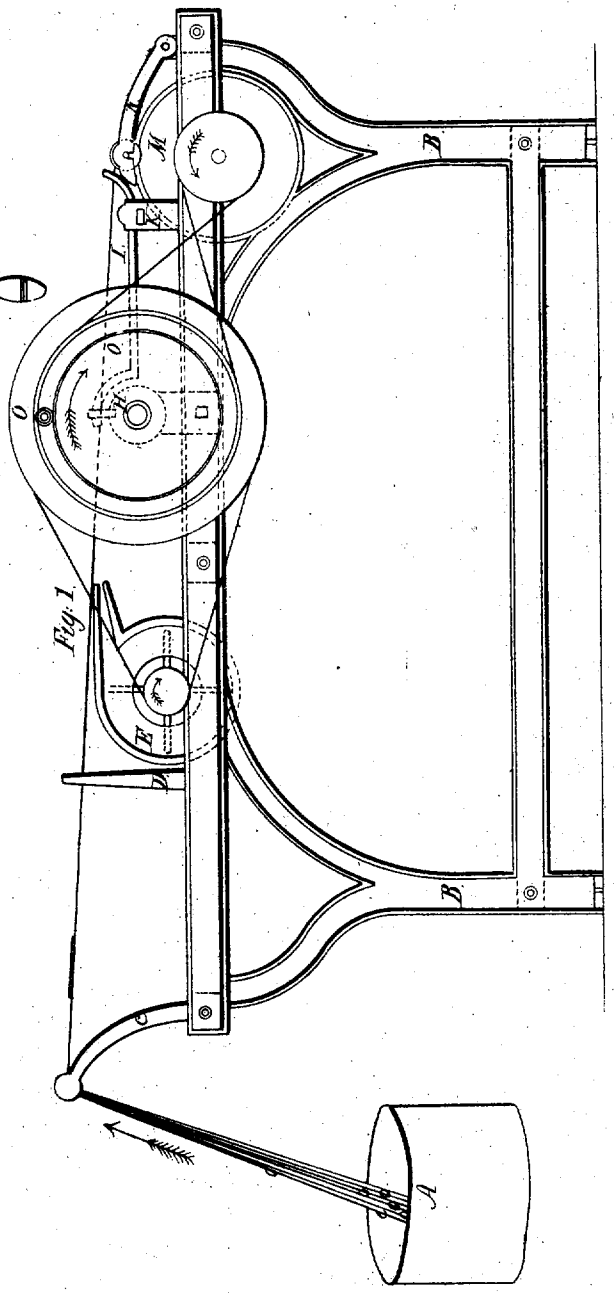


Fig. 1

Aug 17 1835 9022X 6f.

Gamaliel Gay, Poughkeepsie Dutchess Co. New York.

The Schedule referred to in these Letters Patent and making part of the same, containing a description in the words of the said Gamaliel Gay himself of his improvement in the process for the unwinding of Silk from Cocoons and winding thereof upon spools or bobbins, and also in the machinery by which the same is effected.

To all whom it may concern. Be it known that I Gamaliel Gay, ~~of~~ of Poughkeepsie, in the County of Dutchess and State of New York, have invented an improvement in the process for the unwinding of Silk from Cocoons, and winding thereof upon Spools or bobbins, and also in the machinery by which the same is effected, and I do hereby declare that the following is a full and exact description of my said improvement.

The main object of my improvement is to take the silk immediately from the Cocoons and instead of winding it into skeins upon reels, as is usually done, to dispense with the reeling process altogether, and wind it immediately upon spools, or bobbins of any required description. The machinery which I use for this purpose may be varied in form, but the general principle of its construction and upon which I proceed will be fully explained by the accompanying drawing in which, fig 1. represents the elevation of such a machine, and fig 2. shews it in place. A represents the pan or reservoir of warm water in which the Cocoons are immersed. B.B the sides of the frame attached to each other by suitable girths or cross pieces. C.C. are guides through which the Silk passes. D.D. are studs which serve to separate the two threads which are spooled at the same time. E is a blower or fan wheel within a case, constructed and acting in a manner well known, and which serves to dry the fibres of Silk as they are spooled. This fan wheel revolves on a shaft F. being driven by a suitable wheel and strap, G. the main shaft carrying a cylindrical shell, H, which has a spiral groove around it,

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to receive a pin which passes through the end of the vibrating lever. I, On the opposite end of this lever there is a crotch or fork, thro' which a pin or stud passes which is attached to and carries the slide bar K. The vibrating lever I. works upon a pin at or near its centre & the groove in the hub, t t, consequently communicates through it's intervention a traversing motion to the bar, K. This bar has on it two fingers or guides through which the silk passes to the spools by which means it is laid even thereon, and the threads are crossed in the most advantageous manner. The shaft, L. carries two drums M, M. on which the spools rest, and from which they receive their motion. A few with cocoons may be placed at each end of the machine, which in that case will be so lengthened out as to sustain the necessary appendages for conducting the silk to the spools. which additional spools may rest upon the same drums M, M, already described, Stirrups N, N. or other similar contrivances are used to guide and keep the spools in their places. These stirrups hang on centres at their outer ends to allow them to rise with the increase of silk on the spools. OO. are driving pullies connected to the requisite wheels. The machine may be turned by hand or otherwise. I have thus described a machine which has been found fully to answer the intended purpose, and in so doing I have referred to many parts which are not claimed as new, nor indeed do I intend to claim as my invention either of these parts in their individual capacities or to confine myself to the exact mode of combining them as herein represented. But I do hereby claim the winding of the silk from the cocoons directly on to spools, without the intermediate process of reeling, and also that arrangement of the winding machinery by which the same is, or may be effected, acting substantially as herein set forth.

Witnesses
Saml Stettinius
Jno Wells

Jamaliel Gay

(7 44ths) (Patented 17th Augt 1835)
(Drawing)