7120X

S. Batchelder.
Yarn Dressing Mach.

Patented Jun. 22, 1832.

Fig. 2.

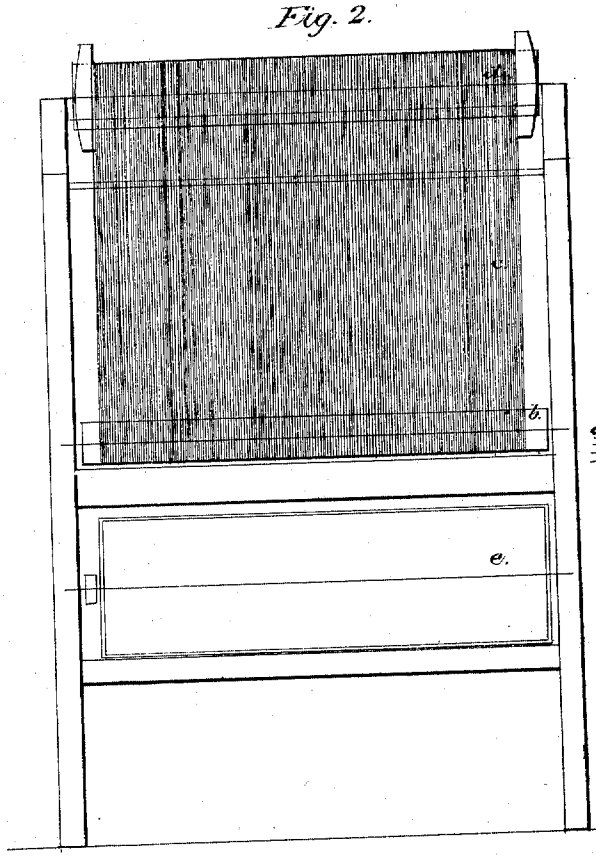
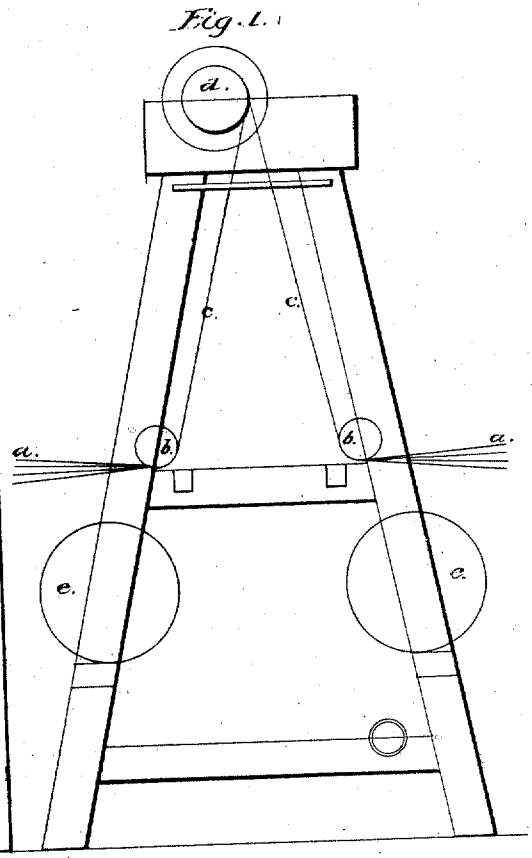


Fig. 1.



N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

June 22, 1852

7120X

Samuel Batchelder

Letters Patent

The Schedule referred to these Letters Patent and making part of the same containing a description in the words of the said Samuel Batchelder himself of his improvement in the machinery for drying yarn preparatory to weaving. Be it known that I Samuel Batchelder of Saco in the State of Maine have invented an improvement in the mode of drying yarn by which that preparatory operation in the business of weaving is greatly facilitated & that the following is a full and exact description of my said invention.

The accompanying drawing represents two vertical sections of part of the drying frame of the ordinary form fig 1. being a section thereof, as seen and fig 2 a side view. a. a. represents the yarn in its course from the drying rolls and brushes. b the measuring rolls b. b. from which it is drawn as represented at c. c. and wound on to the beam d. The measuring rolls are usually made half a yard in circumference and as they revolve by the motion of the yarn, a clock serves to indicate the quantity dryed. For the purpose of drying the yarn it is common to employ reverberating fans running in boxes which boxes are shown at e. e. & sometimes a current of heated air is made to blow upon it. By my invention the revolving fans & the heated air are dispenced with, the yarn effectually dried without their aid. For this purpose I make my measuring rollers, hollow or I use separate drying rollers forming them of copper or sheet tin. & cause steam or heated air to be conducted thro' them by means of hollow gudgeons

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in the same way in which calenders & other rolls are sometimes heated. As the mode of doing this is well known to those in the habit of constructing or using such machinery, it does not require to be described by me. Altho' I consider Steam as the most convenient vehicle of heat in the above specified it is manifest that hot water, metallic heating, or other articles may be employed to heat the measuring rollers. I do not therefore, intend to confine myself to the use of steam exclusively, but what I claim as my invention is the using of a cylinder of metal heated by steam or other wise in the usual place of the measuring rollers, or in any other situation where they can be placed in contact with the yarn for the purpose of drying it instead of or in conjunction with the flues or heated air hitherto employed for that purpose —

Witness
Peter Shipley
John F Hartley

Sam[l] Bachelder

Enrolled

[528 words]