52. TEXTILES. CLOTH FINISHING.

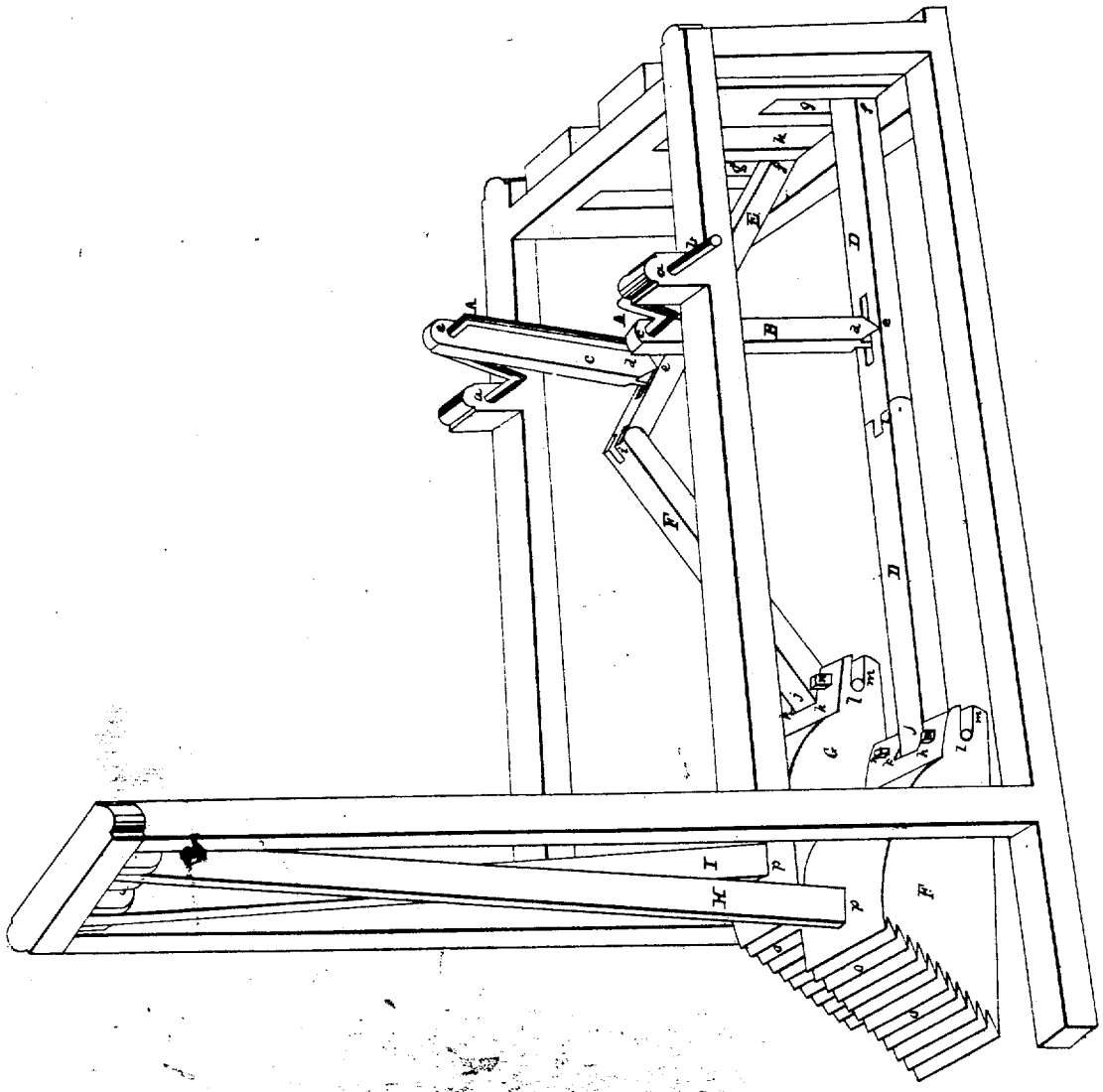
22

Draftsman

A. Atwood.

Fulling Machine.

№ 6094X Patented Oct. 1, 1830.



Oct. 1. 1830 6094X 502

Anson Alwood of Salem New York.

Letters Patent

To which he is entitled in the said Letters Patent and making part of the same containing a description in the words of the said Anson Alwood himself of his improvement in Fulling Mills and Power Looms.

To all to whom these presents may come. Be it known that I Anson Alwood of Salem in the County of Washington and State of New York. have invented a new and useful improvement in the construction of Fulling Mills and Power Looms and that the following is a full and exact description of the nature of said improvement its construction and operation as invented and applied by me.

It is usual in Fulling Mills to connect each hammer to the crank by means of an iron rod, or a stick of timber called a pitman: I propose substituting between the hammer and the crank, what some writers call the "Engine of oblique action". This is done by using a short pitman, and connecting it with the hammers by a compound lever. one end of this compound lever is fastened to the hammer and the other end is fixed by a saddle pin to the frame of the mill. Near the centre of the lever is a rolling joint, and at the joint, or between it and the fixed end of the lever I attach the pitman reaching from the crank. The joint is similar to those in the arms of a carriage top and is furnished with a saddle pin. The advantages of this improvement are a gain of power and a more gradual and equable motion of the hammer better conducing to the felting of cloth, also a diminution of expense in crank and gearing and repairs. To the Power Loom I apply my improvement for the purpose of giving the cloth a uniform tension, by giving two blows instead of one in beating it up. This I do by a compound jointed lever (similar to that used in the fulling mill) with one end attached to the lathe and the other end to a pin on one of the posts of the loom. This lever is moved by a crank or cam wheel. The end of the lever attached to the post must be furnished with a screw bolt and nut and a gum in the post

Just for Use

allowing the lever to be elevated or depressed at pleasure so as to secure the blows upon every thread of felting. In the fulling mill which I have put in operation upon this plan in the Town of Chebron the length of the lever is six feet. the joint exactly in the middle. the pelman unites with the lever seven teen inches from the joint. thus giving the hammer a stroke motion upon a crank of ten inches sweep.

What I claim as new and as my own invention and is the application of a compound jointed lever or the equivalent to obtain a motion to a fulling mill and Power Loom I consider the construction and application as above set forth wholly my own and I claim the exclusive right of using the same together with such advantages derivable therefrom.

Witnesses
Jno Stevenson Jr
Henry H Dodd

Anson Atwood

GB
JMJ. 6 Dec 5 mos

Patented 1st October 1830