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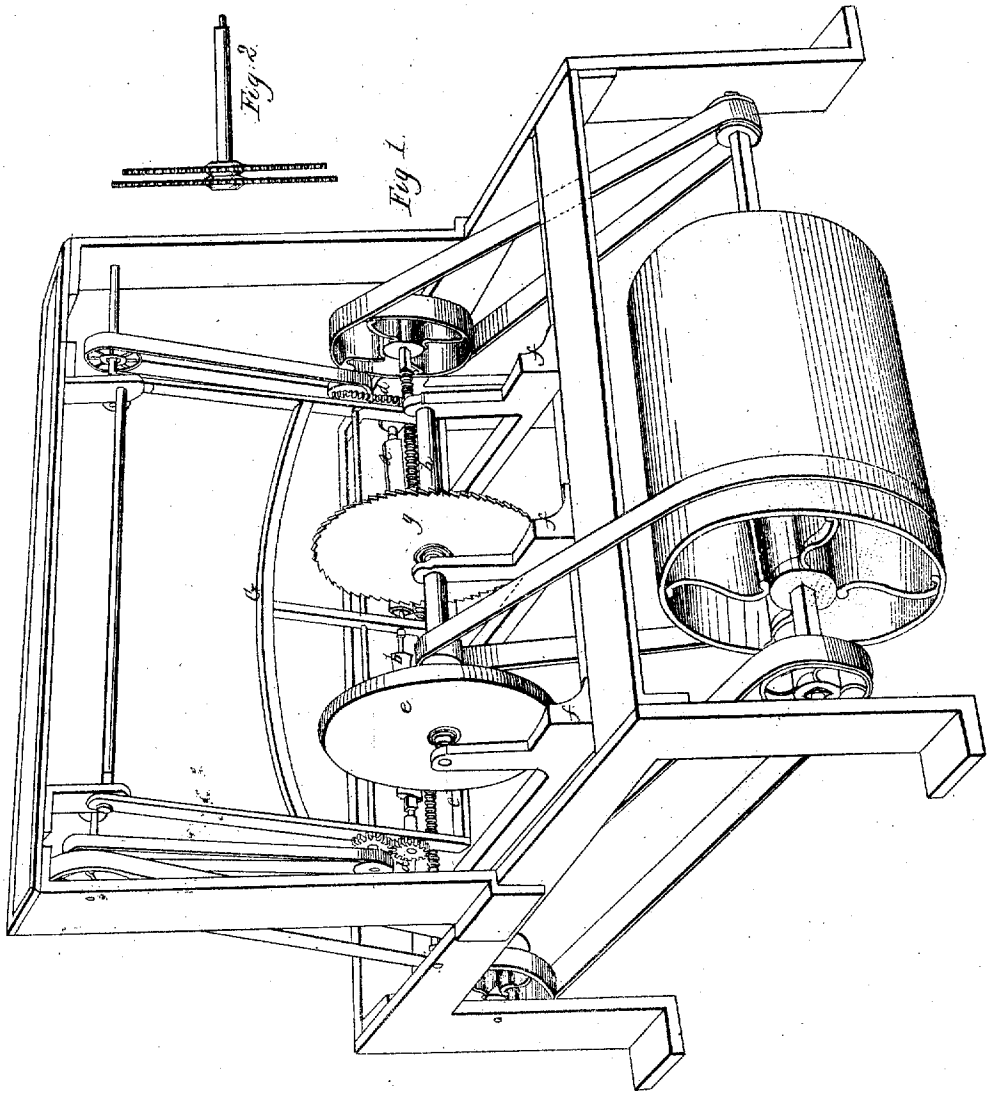
E. Rhodes,

Spoke Lathe.

Patented Nov. 11. 1830.

Fig. 2

Fig. 1



The State of New York

Nov 11, 1830

[illegible] Clerk's office of the said County do hereby certify that the above and foregoing is a true copy of the Letters Patent and the accompanying specification of the said Elias Rhodes himself of his improvement in the Lathe.

To all to whom these presents shall come Be it known that I Elias Rhodes of the Town of Hoosick in the County of Washington and State of New York have invented a new and useful improvement in the Lathe for shaping various articles of irregular form according to a pattern and that the following is a full and exact description of the construction and operation of the said improvement. That species of Lathe to which this improvement is applicable has been in use for a number of years past for the shaping of Gun Stocks and other articles of irregular construction according to the pattern of the article to be formed. The general principle of its operation is well understood and will therefore require but a brief description.

A strong piece of wood to be shaped and the pattern are both placed at a suitable distance from each other in a frame capable of circular motion. They have each a slow rotary motion exactly alike produced by a suitable pinion at one end of each of the pattern according it is made to come in contact with a smooth cast iron wheel which will cause the frame to vibrate backward and forward according to various irregularity in the pattern. The stock to be shaped at the same time comes in contact with a wheel which revolving with great rapidity to whose circumference is attached numerous cutting to operate on the wood. These two wheels are attached to the same frame & constantly retain the same relation to each other. The frame which includes them is made to move slowly from one end of the stock to the other so that every part is operated upon and brought to the shape of the pattern.

My improvement consists in using one or more cutters down in the plane of cut less than is used. When one cutter is used it is found upon each of the cutting wheels and such is only that in regulating the progressive velocity and how rapidly must both to the thickness of the stock. But if it would not move so fast as to prevent the cutter cutting its way clear. When the shape of the stock to be formed is such as to make it necessary to cut through a considerable thickness of wood, it is

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[illegible] have [illegible] or more days after the same may [illegible] from the next [illegible] 16th. That the first [illegible] after the [illegible] before the next [illegible] meeting 16th. That a Claim in the application for [illegible] to the above described Lathe for the purpose of shaping [illegible] may be shaped therein excepting Last and Hat Blocks. Surry Hills September 23 1831

Witness
W.H. John Holt
Simeon Berry

Elias Rhodes.

(592 mo)