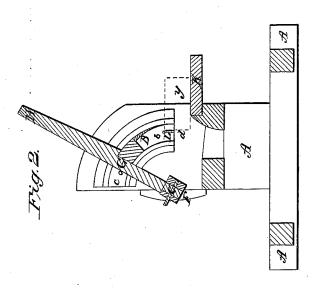
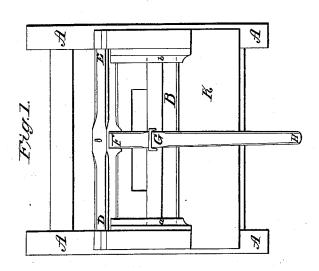
## C. Manning, Making Stares. Nº 1,781. Patented Sep.10,1840.





## UNITED STATES PATENT OFFICE.

CEPHAS MANNING, OF ACTON, MASSACHUSETTS.

## MACHINE FOR CUTTING STAVES.

Specification of Letters Patent No. 1,781, dated September 10, 1840

To all whom it may concern:

Be it known that I, Cephas Manning, of Acton, in the county of Middlesex and State of Massachusetts, have invented new and useful Improvements in Machinery for Cutting Staves or Such other Articles as May be Successfully Formed by Said Machinery.

The said improvements, the principles, thereof and manner in which I have contemplated the application of the same by which they may be distinguished from other inventions of a similar nature together with such parts or combinations I claim to be my invention and consider original and new, I have been not be a principled. The

15 I have herein set forth and described. The said description taken in connection with the accompanying drawings herein referred to, forms my specification.

Figures 1 and 2, represent my machine, 20 the former being a top view, and the latter a vertical section.

A A is the framework suitably arranged.
B is a knife whose transverse section is
the arc of a circle or thereabouts, and whose
shape longitudinally shall correspond to the
curved form lengthwise of any staves to
be cut, or it may be a straight knife for
vessels whose shape is pyramidal or conical
or a frustrum of a cone, as is the case in
common water pails and such articles.

The extremities of the knife are properly affixed to curved pieces of wood or metal a, b, Figs. 1, 2. These pieces move in curved grooves c, d formed in metallic plates attached to the inside of each of the posts of

the frame A A. The curve of these grooves is, technically speaking, a part of the circumference of a circle whose center is the point C, Fig. 2, or axis of the shaft D, E, or whose ending is equal to that of the 40 barrel for which the stave is to be cut. One end of the lever F G H is attached to the center of the shaft D E. This lever is connected with the knife B in any proper manner. Therefore when the end H of the lever 45 is pressed down by the hand applied thereto, the knife B will be moved downward through the arc of a circle, so that if a block of wood y is interposed a stave may be cut from the same.

The block is placed on a proper platform K, and as each stave is cut therefrom, the block is pushed against a stop or ledge L, attached to the knife, which stop gages or regulates the thickness of the succeeding 55 stave.

Having thus described my machinery for cutting staves I shall claim—

Attaching the knife to curved pieces a, b, moving in grooves c, d, as represented in **60** Figs. 1 and 2, as described.

In testimony that the foregoing is a true description of my said invention and improvement I have hereto set my signature this nineteenth day of May in the year 65 eighteen hundred and forty.

CEPHAS MANNING.

## Witnesses:

R. H. Eddy, J. Wright Warren, Jr.