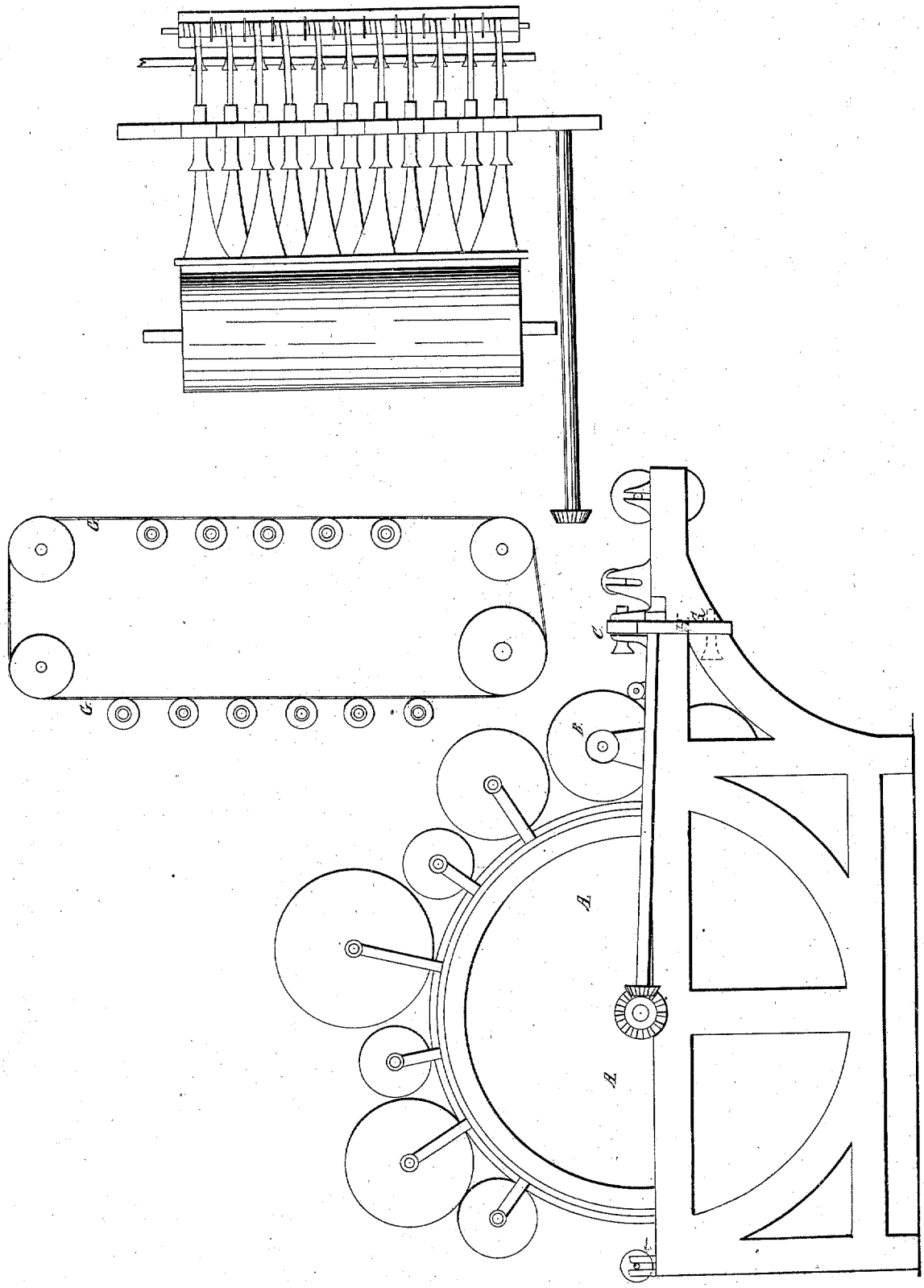
7477X

J. Boynton.

Carding Mach.

Patented Mar. 11, 1833.



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

1877X John Boynton March 11, 1833

Lottery Patent

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said John Boynton himself of said improvement in the wool carding engine or Machine. To all to whom these presents shall come. Be it known that I John Boynton of the County of the County of Tolland and State of Connecticut have invented a new and useful improvement in the wool carding engine or machine and condensers and in the application of the same to the carding and condensing of cotton & I say that the following is a full and exact description of the construction and operation of the said improvement wherever it is used and applied by me. The improvement to which I claim an exclusive right is contained in that part of the machine which makes the fine roping fitted for the spinning Jack or other spinning and it is supposed not necessary to describe the whole machine which has for a long time been in use. The tube spindle rails are made with a flat bottom of wood or metal 3 or more inches wide & a little longer than the cylinders of the machine with upright side pieces 4 inches & through which the tube spindles are inserted. Under these spindles runs the belt or strap which turns them by the friction of their own weight lying on the strap. This strap or belt is carried by a pulley upon a shaft or arbor placed in a right angle with the main shaft & driven by bevel gear attached to the main shafts. The tube rails containing the spindles are placed one over the other each to correspond with the upper cylinder and each shaft. The strap is carried from the top of the pulley under the spindles in the upper tube rail & laying over a pulley at the other end of the rails in an upright stand & then under another pulley below on the same standard

page

[illegible] with the spindle on the bottom. Take care to the
[illegible] spindle. The tube upon the axis made of tin pipe of about
an inch diameter. The spindle part is of iron long & smooth as the
axis & may be made or left with a transport axis to each in
which the spindle & gudgeon & playing through the spindle being
stayed by the small collar at the outer end of the spindle plays
off & on the shaft as wheel is pressed for or from spinning. The tin
part side of the spindles may be made of equal diameter to
the width of the card being from which the roping is to be made.

The great advantage of the transport axis is that all cir-
cumference on the inside is much greater & creates more fric-
tion on the roping & gives it more hold as it comes from the card
& makes it delicate more due and more direct hold any other
tube now in use & the stop or tube passing in this manner under
all the tube carries them all with equal velocity & dispenses with
the necessity of a number of hands as has been the usual
mode. The improvement in the shape of the tube spindle
is considered and the manner of driving them by casting them
all on a single belt or strap. The tube in the top spindle rail
lying on the out side of the belt or strap & those in the bottom
spindle rail lying on the inside of the belt or strap, such
belt or strap is of such width & that all other parts of the en-
gine may be varied in size to accommodate the purchaser & the
kind of stock that is to be used & the goods to be made & the use-
ful application of the lance wood carding engine with the
tube or other contained to the carding and roping mounted on
cotton and stays. & all that I claim as peculiarly my own invention
improvement or discovery [illegible] application for which I claim secured
by my patent

Witness
Wm. Hall
W. Hibbins

John Bogerton.