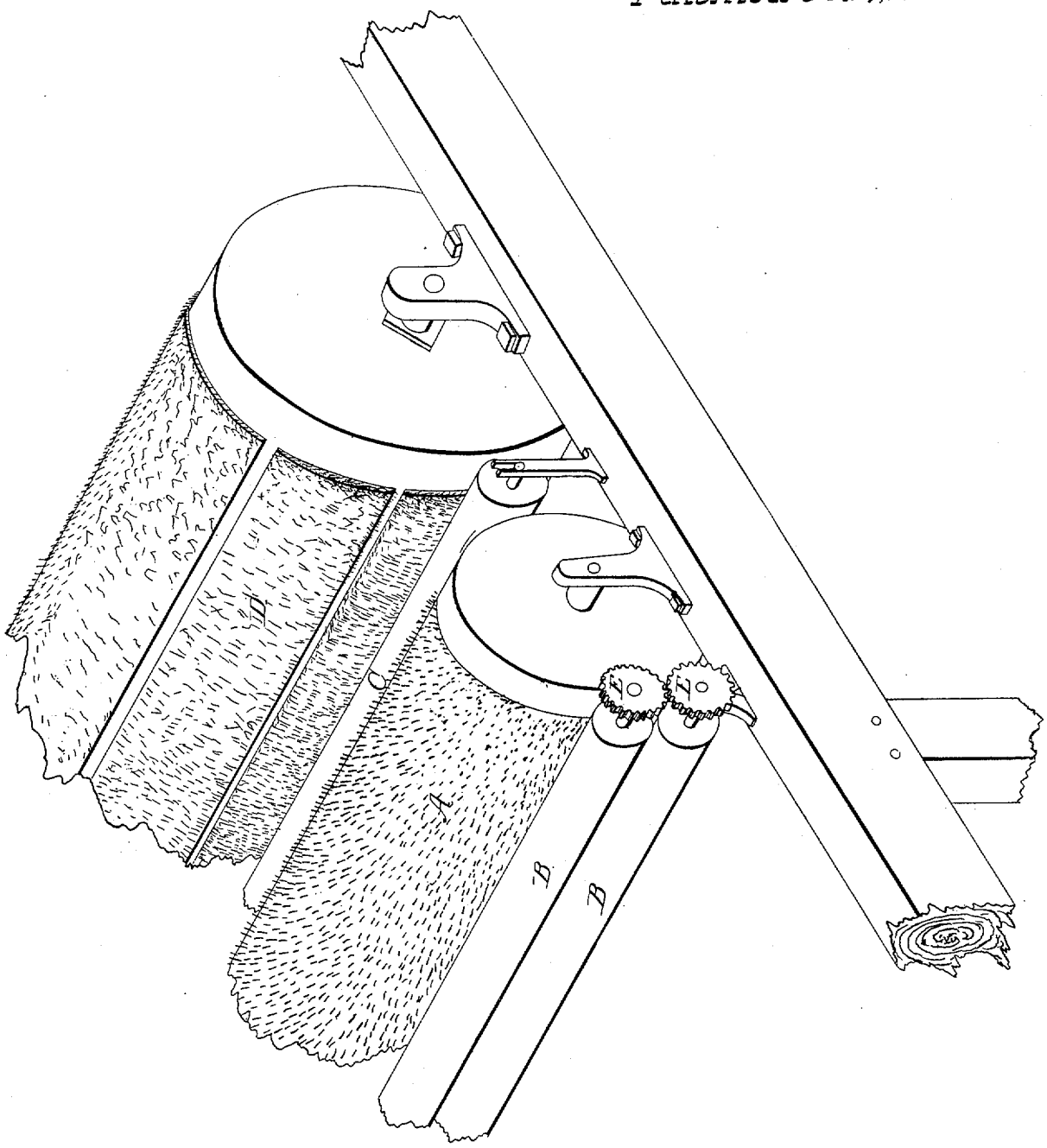
1588X

W. Humphrey.
Carding Mach.

Patented Oct. 4, 1811.



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

William Humphreys.

1588X

Letters Patent.

The subscribed specification is in three Letters Patent bearing date the [illegible] containing a description in the words of the said William Humphreys himself of his improved Machine for cleaning and spinning &c. called the Hummelhaegerella spinner.

The machines for heaving and spining are composed of Rollers, a description of which is as follows Viz.t

The wool for the heaving machines, passes through the back rollers which conduct it to the end or forth roller by the assistance of another small roller which rubbing it to the teeth of the forth or end roller. From the forth roller it is drawn to any size that may be required by a pair of front rollers couples together and weighted, either by separate Weights or Springs through the same or other Machines upon the same principles, or by increasing the velocity of the front rollers.

The principle is, the front rollers draw the staple of the wool through the teeth of the back or forth rollers as the case may require. The back or forth roller or rollers retain the bulk of the wool, heaving or rowling, and, keep it perfectly true to the front rollers, which reduce it to any size required by repeated operations.

The diameters of the rollers & gearing may be altered as circumstances may require.

The object of this Machine is to take the wool from the heaving or rowling machine as may be termed most suitable, and deliver it in size suitable to be spun into such numbers as may be desired.

upon

[illegible] Machinery calculated to [illegible] the above principles
[illegible] accomplished by [illegible] figures which may [illegible]
the cotton, caught in the notches, dispersed on the [illegible]
and or to the rollers between the front and back
rollers.

William Humphrey

Witnesses
James Porter
John Ward

Specification

I claim the principles of the above to the drawing
thinning of all the various substances of wool, worsted
the mule, flax & cotton, by varying the size of the cog
in proportion to the staple of the articles. Also the arr
nual pieces of x gig cobbins, which are taken f
roveling at times for the purpose of throwing the cotton
out of the rovelings, before it enters the back roll
of the Machine, which has the tendency to open the cotton
and makes it by the draft of the front rollers to the
more easy and flexible through the teeth of the card
or back rollers than it otherwise would.

The Machinery for preparing and spinning h
Wool and other articles, will be the same as in
principle, as the former specifications for wool, bu
different as to their sizes & the manner for forming
of their various parts.

The principles of the Machinery are ca
calculated to take the the raw material either from
the cards in rolls or slivings or from the Mother o
the article of flax. to prepare it in rovelings & the
fine it into yarn upon different Machines upon th
same principles.

Worsted rovelings prepared upon a bi

15884

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or an Inverted wheel, will answer the purpose
equally well to be placed on this plane as is now
shewn by a machine by the motion of this plane
of the spindles receive operation

Witnesses
Th. Thornton
Geo. Lyon

Wm. Humphries Esq.
C.K.J.B.

590 Acres

Drawing made
C.K.J.B.