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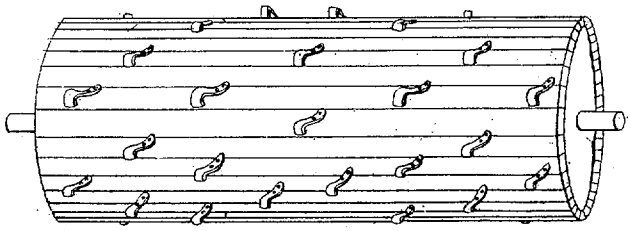
P. CLEAVELAND.

THRESHING MACHINE.

Patented June 25, 1836.

Fig 1.

Toothed cylinder.



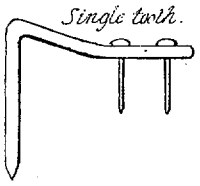
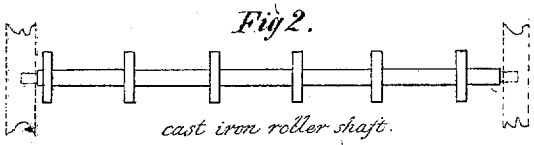


Fig 2.



cast iron roller shaft.

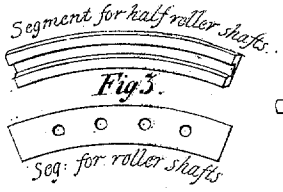
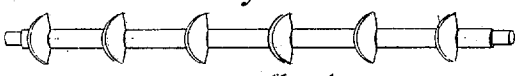
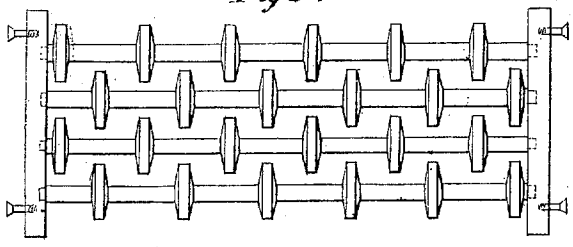


Fig 4.



Half roller shaft.

Fig 5.



Concave bed of roller shafts.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

June 25, 1836 9768X

Porter Cleveland, c. of Albemarle and State of Virginia

Letters Patent

The schedule referred to in these Letters Patent and making part of the same, containing a description in the words of the said Porter Cleveland himself of his improvement in the threshing Machine

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To all, to whom these Presents, shall come

Be it known that I Porter Cleveland in the county of Albemarle and State of Virginia have invented a new useful and durable improvement in Machinery for threshing small grain of every description called Cleveland's rotary roller shaft and half roller shaft threshing machine for threshing wheat and other small grain from off the straw, which machine and its manner of use are as follows viz

This machine is constructed by having a frame three feet long by two feet nine inches from out to out more or less, according to the power required to give it motion. The frame may be made of any suitable materials consisting of four posts two feet and a half long, four and a half inches by three inches. into these posts are framed with double tenons two side girders fourteen inches wide by three inches thick, and four other girders three and a half inches by three inches are framed into said posts which make the ends of said frame, on the top of these posts are put two caps of timber three and a half inches by three inches extending 4 inches beyond each end of the frame.

On the said girders of the frame is placed a cylinder 2 feet 3 inches long and 15 inches in diameter constructed as follows. On a shaft of iron 1 1/2 inch square of suitable length for the frame are placed two wooden heads 2 inches thick, turned round of sufficient diameter to receive staves 3 inches thick so as to give the full diameter of 15 inches to the cylinder. On this cylinder are placed 76 or more or less brace and mailed teeth in proportion to the length which are placed in the cylinder at suitable distance

from each other, either on a spiral, half a spiral or a straight rows, at the option of the builder so as to have but one more teeth in a row round the Cylinder. This teeth is made as follows, of wrought iron 3/8 of an inch square bent in an angular form having one prong straight which is driven 3 inch. into the Cylinder leaving it 1 1/2 inch out. The other and or prong forms a curved brace of 8 or more inch. long through which are driven into the Cylinder two large nails as seen in fig 1st.

The concave bed is made or constructed of cast iron roller shafts 2 feet 3 inch. long. The rollers 4 inch in diameter 3/8 of an inch thick at the outer edge and 1/2 inch thick where it becomes a solid with the shaft; the solid part of the shaft 1 1/2 inch in diameter more or less. The rollers are 2 1/2 inch apart from centre to centre as in fig 2d.

Circular Segments of cast iron are made 3 inch wide and 1 inch thick of sufficient length with holes 1 inch in diameter so as to relieve five more or less roller shafts at a proper distance to roll without touching each other as in fig 3d.

The roller shafts are fixed alternately in the circular segments as in fig 4th and then placed in the frames at proper distance from the cylinder and the segments screwed fast to the side girders.

The rollers may be either smooth on the outer edge or notched at the option of the builder, notches on the edge will give them more motion.

The roller shaft may be left out in the concave bed and the half circle or half roller shaft before named used in its stead. The half roller shaft is made in the form of half of the roller shaft as in fig 5. this is placed in the frame by being screwed to a wooden concave bed which is let into the side girders by means of circular groove cut in the girders.

What I claim as my invention and improvement is the bras and nailed teeth in the Cylinder, the roller shaft, and the half circle or half roller shaft in the concave bed and the manner of forming in which the concave bed as first together as above described for the aforesaid purposes.

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Witnesses
Elijah Johnson
Joseph Herndon.

Porter Cleaveland

819 w85

Drawing