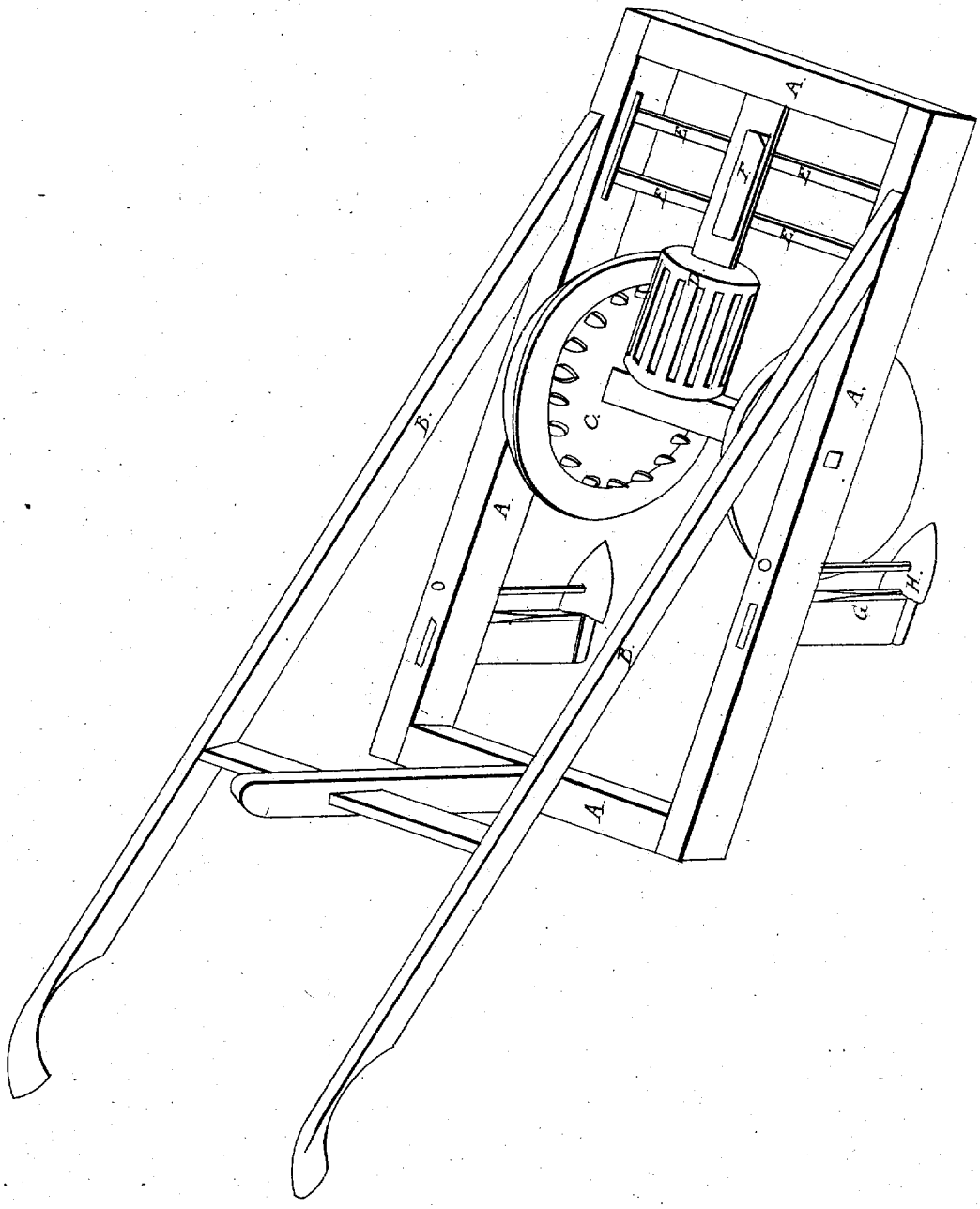
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J. Gatling.

Rotary Cultivator.

Patented Jun. 19, 1835.



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

June 19, 1835 6/19/1835

Jordan Gatling Mocksville North Carolina 8908X

Cotton Patent

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Jordan Gatling himself of his improvement in the machine for skinning Cotton.

To all to whom these presents shall come Be it known that I Jordan Gatling of Mocksville in the County of Rowan and State of North Carolina have invented a new and useful improvement in the machine for skinning Cotton and that the following is a full and exact description of the construction and operation of the said machine as invented or improved by me. It has been devised for the purpose of facilitating and reducing labour of skinning Cotton and that the operation of skinning may follow immediately after that of skinning and may be done by animal power or any other. The construction an oblong frame is made of convenient width and length in order that the centre of it may stop on the cotton plant it may be of about the ordinary length of a plough and the two ends of the side pieces are connected by a bar running across from one to the other. At that end intended for the back is to rise an upright standard at each end of the cross piece through the upper part of which passes a brace for the purpose of sustaining the arms or handles of the frame at their proper distance asunder and which slope downwards to the frame which they join at the side pieces and in about the centre of the length. To the front cross piece is attached a triangle for the horse &c to draw by. In about the centre of the sides of this frame and other cross pieces is an axle of iron second from one to the other parallel with the two already described.

On each end of this iron is placed a wheel [illegible] loosely thereon and between the sides and of such a diameter as to raise the frame high enough above the plants & on these two wheels the weight of the frame is sustained which causes them to revolve. One (say that on the right hand) is simply a wheel without teeth but the other has a row of cogs standing out from the side towards the centre of the frame or in lines parallel with the axle which work in those of a spindle wheel of 3 inches diameter proportioned to the number of revolutions & steps of the other wheel. The spindle is placed upon an axis running through

8908X

it having much to guard against respecting the hole drilled in the Cross Piece or axle & this other guard is another Iron formed to the Piece at the front end and it is situated in the centre of the frame and parallel with the sides. The mortising of the large wheel carry round this handle with them (it being fast on the axis) and between the end of it and the bar a Cross Piece in front is secured in the axis a square block through which is passed one arm at each end through & through & projecting sufficiently from either side to reach the Cotton plants at the thin rows. Cross these arms at their ends is secured three Iron Pieces of one to steel to act as a hoe a Cutter 10 Ins long of such a width as is desired to thin out the plants & each end of these arms will thus form a hoe & if necessary another pair may be placed at right angles with them in order to have more or one hoe only may be used as may be thought best. This axis with its handle and hoes may be placed either in front of the centre cross piece or behind it as will best suit and in order to hide up the Cotton after the hoes there is to be placed behind them and descending from the bottom of the side pieces a Cutter & a horse hoe or Cultivator tooth so as to ridge up the ground on one or both sides of a row.

Should the plants be in some places too thin so that it will be desirable to have them out at occasional distances only then the Cutter and Cultivator tooth may be dispensed with by which means the hoes are placed more at command so that by simply raising either one end or the other of the frame by the handles according as they are placed either before or behind the Cutter Cross Piece they can be brought into action where the plants may stand thickest and withdrawn again at pleasure.

What I Claim as my invention and not before known in the above described machine is the manner in which I have combined the operation of the wheels & hoes in the interior of the frame so as to produce the application I have described of giving motion to the said hoes. In testimony that the above is a full clear & exact description of the construction and mode of operation of my machine as invented by me I have hereunto set my hand this twenty first day of May Eighteen Hundred and thirty six

Witnesses
C. H. H. Morton
Henry Stone

Willm Gosling

[illegible]

(Patented June 17. 1835)

(Drawing)