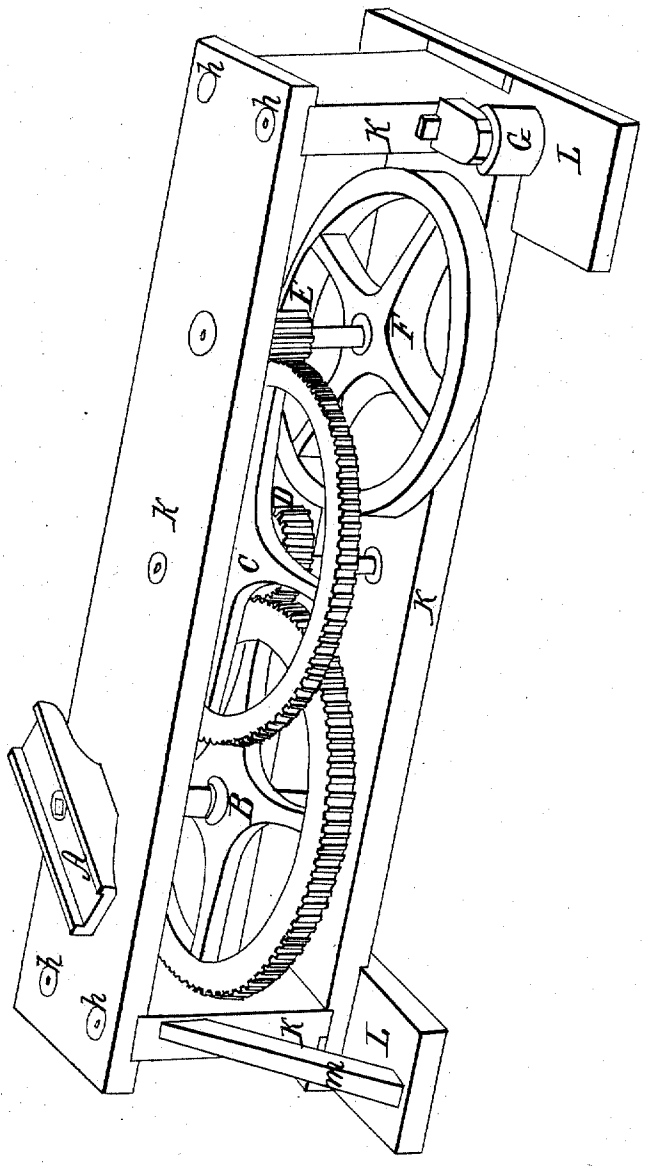
No Printed Specification Available

7115X

Burrall & Axtel,

Horse Power.

Patented June 13, 1832.



AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS)

7115X June 13, 1832 1

Thomas D. Burrall & Jehial F. Axtell of Geneva
in of Ontario and State of Newyork

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 Tho.s D Burrall and Jehial F. Axtell themselves, of their improvement in the machine for propelling Threshing Machines and other Machinery by horses or other animal power.

Be it Known, that We, Tho.s D. Burrall & Jehial F. Axtell of Geneva in the county of Ontario and State of Newyork have invented a new and useful improvement in the machine for propelling Threshing Machines and other machinery by horses or other animal power; and that the following is a full & exact description of the construction & operation of the machine for that purpose as invented or improved by us. Viz:

It consists of a frame, composed of two cross sills of plank 10 inch.s wide 3½ inch.s thick & four feet long, placed parallel to each other and about 6 feet apart: on the top of these is laid a plank of similar dimensions about 8 feet long and let into the cross sills by slight gains, on each end of this plank is raised a head block 10 inch.s wide 6 inch.s thick & 12 inch.s high, resting on the tops of these blocks is another plank of similar dimensions of the bottom one: also let on to the head blocks by gains. Thro' each of the head blocks are passed (perpendicularly) 2 strong iron bolts with nuts and screws confining the top of the frame to the cross sills, and thus binding the whole frame firmly together without tenons or mortises.

In this frame is placed a horizontal cogwheel 3½ feet diameter the foot of the shaft of which is adapted into the bottom timpiece of the frame. The upper end of the shaft passes thro' the top piece of the frame by a mortise & collar and on the head of the shaft is secured a cast iron cap or trough, fitted to receive a

Drawing on file and a copy of which is recorded at the end of Page

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sweep or bar 10 feet long to which the horse or other power is to be
attached so as to travel around the machine in order to propel it,
This lever is to be secured to the cap or trough by screwbolts or bands

At a suitable distance in the frame, from this wheel is plac
a second cog wheel of similar dimensions to the first with a pinion
containing twenty teeth, more or less / upon its shaft, meshing
into the teeth of the first wheel. At a suitable distance from
this second wheel and as near as may be to the bottom of the fra
is placed a band wheel of the same dimensions to the shaft of wh
is also attached a pinion, containing 12 teeth more or less, meshing
into the teeth of the second wheel, thus giving a highly accelerated
motion to the band wheel. On the side of the head block near
the band wheel is affixed a pulley over which the band passes a
such a manner as to bring it nearly around the wheel before it lea
it, and thus bringing the returning part of it within a few inches of th
line of draft of the other part of it. Both parts then pass horizontally
in parallel lines thro a box or trunk placed upon the ground, on
which the Horses walk. At the other end of this box / which may
be about 6 feet long) are placed 2 pulleys under which the two
parts of the band pass, by which means, the line of motion is
changed into any direction required. When applied to the threshing
Machine, the wheel of the cylinder of the threshing Machine is pl
directly over the pulleys, so that the band shall pass upwards
from one of the pulleys to the wheel and downwards from the
wheel to the other pulley, thus connecting the movements of the
horse power machine with the Threshing Machine without the
necessity of any additional fixtures or framework to set it up
so that the process of threshing may be commenced at once by
means of it, in the field or the road without trouble or expense

In this Machine, we claim the mode of connecting the frame
with the machinery to be propelled by means of the <u>transverse</u>
<u>band wheel and band</u> under the horses feet, whether the band is
gathered into the box or trunk described by means of the pulley

or passed under foot by live Animals or otherwise — And we also claim the peculiarly simple, strong and useful construction & combination of the frame of the horse power Machine as described above — In Testimony whereof that the above is a true specification of our said improvement as above described we have hereunto set our hands and seals this 20th day of March 1832.

Witnesses

Curtiss Hastings — Thos. D. Burrall

James W.m Handfield — Ichial F. Axtell

(Seal) (Seal)

Patented June 13. 1832.