2 Sheets-Sheet 1.

1257X

M. Battle,

Wheelwrights' Machine.

Patented Apr. 4, 1810.

Fig 1

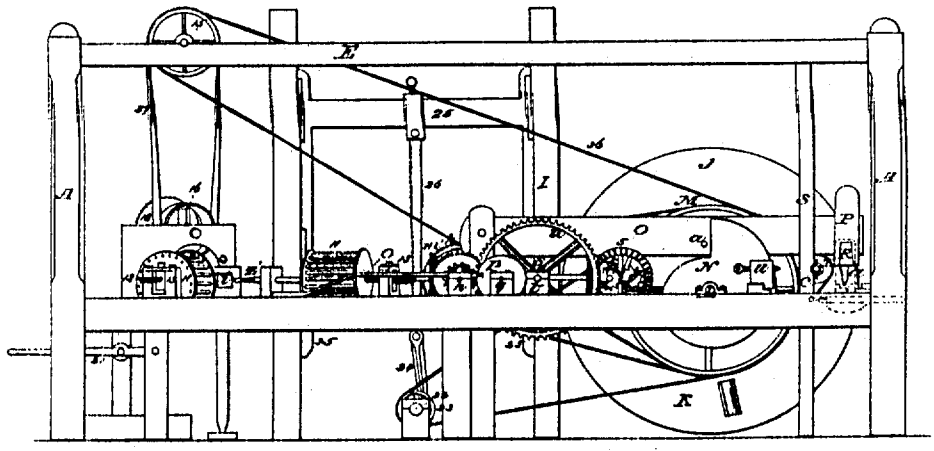
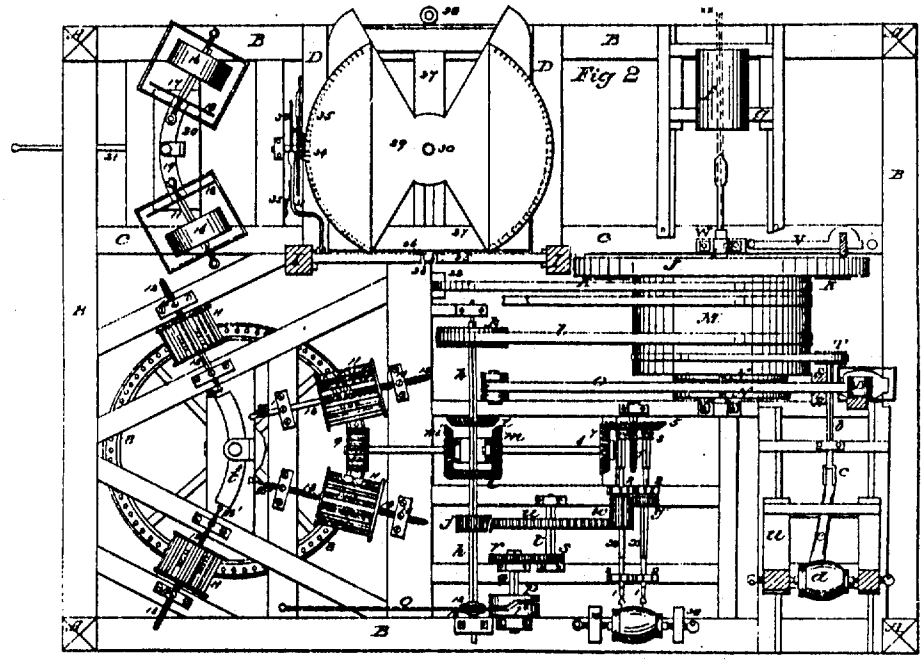


Fig 2



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

2 Sheets-Sheet 2.

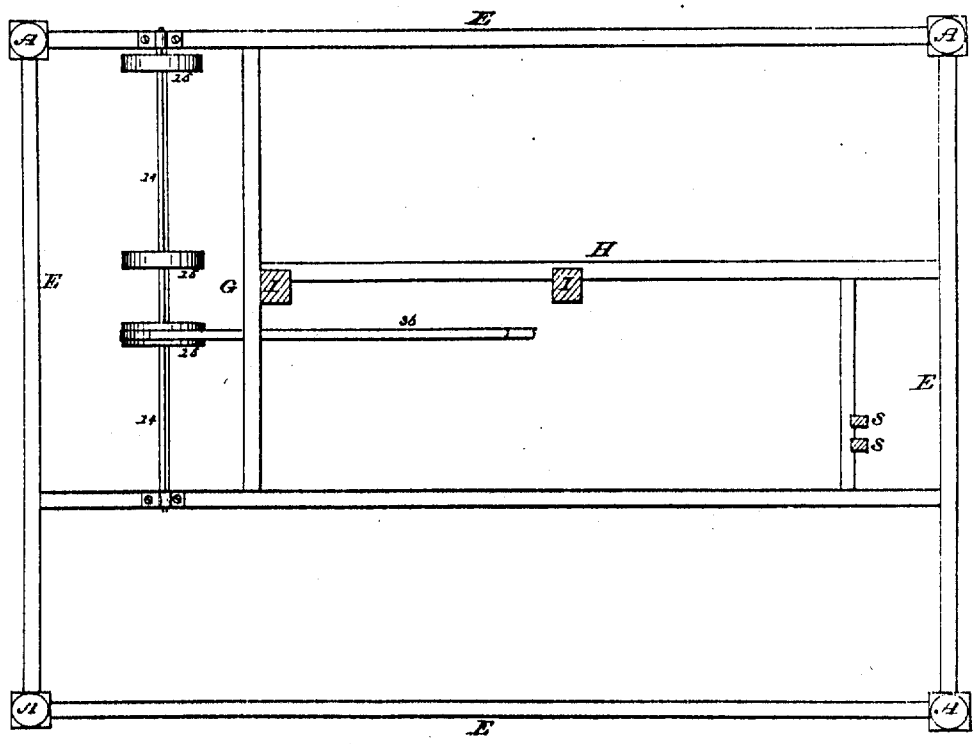
1257X

M. Battle,

Wheelwrights' Machine.

Patented Apr. 4, 1810.

Fig 3



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

486

1257X

~~1257X~~ Hellen Battle April 4, 1810

Letters Patent (Dated April 4, 1810)

The schedule referred to in these Letters patent and making part of the same, containing a description in the words of the said Hellen Battle himself of his American wheel rights Labor saving Machine

---

The frame of the Machine should be fourteen feet six inches long, & seven feet nine inches seven feet high, the frame will consist of four corner posts, seven inches square, four girts seven inches square, to lie horizontally in the frame, the first six inches from the floor, one cross girt seven by six inches square, to lie lengthwise in the frame, seven feet from one side, and two feet six inches from the floor, two girts seven by six inches square to lie four feet six inches apart, and four feet six inches from one end and two feet six inches from the floor. Four plates five by three inches square framed into the head of the four corner posts seven feet from the floor, one girt five by three inches square, lying lengthwise in the frame seven feet from the floor, three feet six inches from one side, one Counter girt seven feet long five by three inches square and four feet from one end into which a girt is framed five by three inches square and ten feet long lying lengthwise in the frame, one which hang two fender posts six inches square which reach the floor; the Machinery will consist of one main upright wheel five feet in diameter four inches thick, in the rim of which will be placed three inches four inches from the circumference the said Screws are to be placed in the same manner as they are in a common plow mid wheel hangs upon a shaft of iron one inch and a half square, three feet six inches long, near the one end of the frame and in said shaft is mortised connected with the wheel a Cylinder of one foot nine inches long and three feet in diameter & therein one said shaft is connected with said Cylinder a double scroll to raise nine inches, one said scroll plays an Iron pin through a wooden shaft nine by three inches square seven feet long; on the end of said shaft and two feet six inches from the Iron pin, will be fixed another head in the form of a Lanterne in the face and under side of which, will be a socket to receive a double Bar

two inches wide and one thick, and on the side of said Iron head, will be a Gain to receive the Butter three inches wide, said shaft will play up and down between two fender posts, said Iron head will play by the side of an upright piece with a groove in the side to receive a spoke, in such a manner that the Butter in the Iron head will prevent said spoke; there will be parallel with the shaft of the main wheel a Cylinder of Wood through which passes an Iron spindle in the end of which is a saw bit for the purpose of Tenanting the other end of the spoke and Bridging the Hub, also a carriage to shift the Hub and spoke to the saw bit the said Bit is turned by a strap passing over its Cylinder on to the main Cylinder, by the side of the face of the main wheel stands a Crain carriage, with a groove suitable to receive spoke hung in such manner that when the spoke is in the Garoove it will carry it to the face of the main wheel, in such a manner that the pointed Iron in said wheel will drop it, likewise a socket in the end of the main shaft to receive an auger for boring the center of the Hub, also a carriage that will carry the hub to the Auger, and from said carriage to the end of the main shaft will run an Iron spindle for the purpose of turning the rim of a wheel, there will lie and Iron spindle parallel with the main shaft four feet six inches long one inch and half square, and on said spindle will be a groove or Cylinder to receive a strap which leads to the main Cylinder, likewise on said Spindle will be two bevel wheels and one pinion, said wheels will stand with their bevels facing each other and at such distance as to receive between them two reversing bevel wheels, said wheels are to be at least Iron, on the end of said spindle stands the Collars, between which works an Iron hand one end of which is made fast the other end of said hand plays in a Grooveing in the rim of a wooden Wheel, said wooden wheel hangs upon an

spindle parallel with the aforesaid spindle, being one foot six inches long and one inch square, and on the end of said spindle hangs an Iron Wheel which is turned by a pinion upon the end of a spindle which passes through a large Iron upright connecting wheel which wheel is turned by a pinion on the spindle containing the two bevel wheels, the motion of said Wheels will be six times to the regulating wheel once, said Connecting wheel works into a pinion of six inches long and four inches Diameter, through said Spindle lays a Horizontal a Spindle, in the end of which is a bitt, said pinion turns a pinion of four inches Diameter and one inch thick, through which runs another Horizontal Spindle in the end of which is a bitt, said Spindle will lie in such a manner as to bore the two sides of a Mortice in a Mark, in each end of said spindle, there will be a Collar of six inches long and said Collars work in four Iron Plummer blocks, on each end of said Blocks are screws and nuts, and on the end of said spindle on the opposite end of the bitts is an Iron plate with a rack and pinion, through the Center of the plate is a screw on a spindle leading through a bevil wheel which turns a Counter Spindle with two bevil Wheels one of which plays in the reversing wheels, one horizontal face wheel four feet six inches in diameter, said Wheels to be of wood or Iron the top of said wheel to be two feet six inches from the floor; and the said wheel is turned by an upright wheel of Iron, which hangs upon an Iron spindle, and on the end of said spindle, hangs an Iron bevil wheel which is turned by the reversing bevel wheels, said face wheel turns four Iron upright Wheels hung upon four Iron spindles laying in such a manner, that with the bits in the end of said Spindle they will bore a Mortice, in the opposite end of the spindles containing the four bitts is a screw working in the Collar, all the Collars contain screws and nuts so that they are moveable, all of said Spindles containing bitts are driven in to any given distance by means of the screws and Collars on the end of the spindles and return by the reversing

and regulating wheels, also the Runner blocks that hold the Mill when it is bored, there is one shaft of wrought iron hanging upon the top of the frame, on which is three Cylinders, upon one Cylinder is a strap leading to the Cylinder of the main wheel, and from the other two Cylinders runs two bands to two wheels, said Wheels hung upon two Iron Spindles on the Spindles is a Collar to project out half an inch; between the Collars hangs two Saws playing in such manner as to saw off both ends of a Billet at any given length with their proper bevil. Said Billet rests to the Saws by means of a Block on which it is fastened which moves by means of a lever, a strap from the main Cylinder leading over another Cylinder on which is an Iron crank affixed to which is a Pitman leading to the sawgate which hangs upon the aforesaid Inside Posts, in said gate hangs two saws said saws contain Teeth on both sides standing towards the Inside Posts, on the side of the sawgate is a square Carriage which moves up the saws between the sawgate by means of a screw to any assigned distance, and on said Carriage is a reversing Carriage, which turns upon a Centre in the middle of the square Carriage the reversing Carriage is moved backwards and forwards by means of a hand and log and the Rag wheels with teeth both ways, on the shaft leading through the Rag wheels is a pinion working a Rack on the reversing Carriage.

Witnesses
John Bernard
Charles Bernard

Mellon Battle

Recd. May 16.

(1518 words) (Patented April 4. 1810.)

Drawing Made