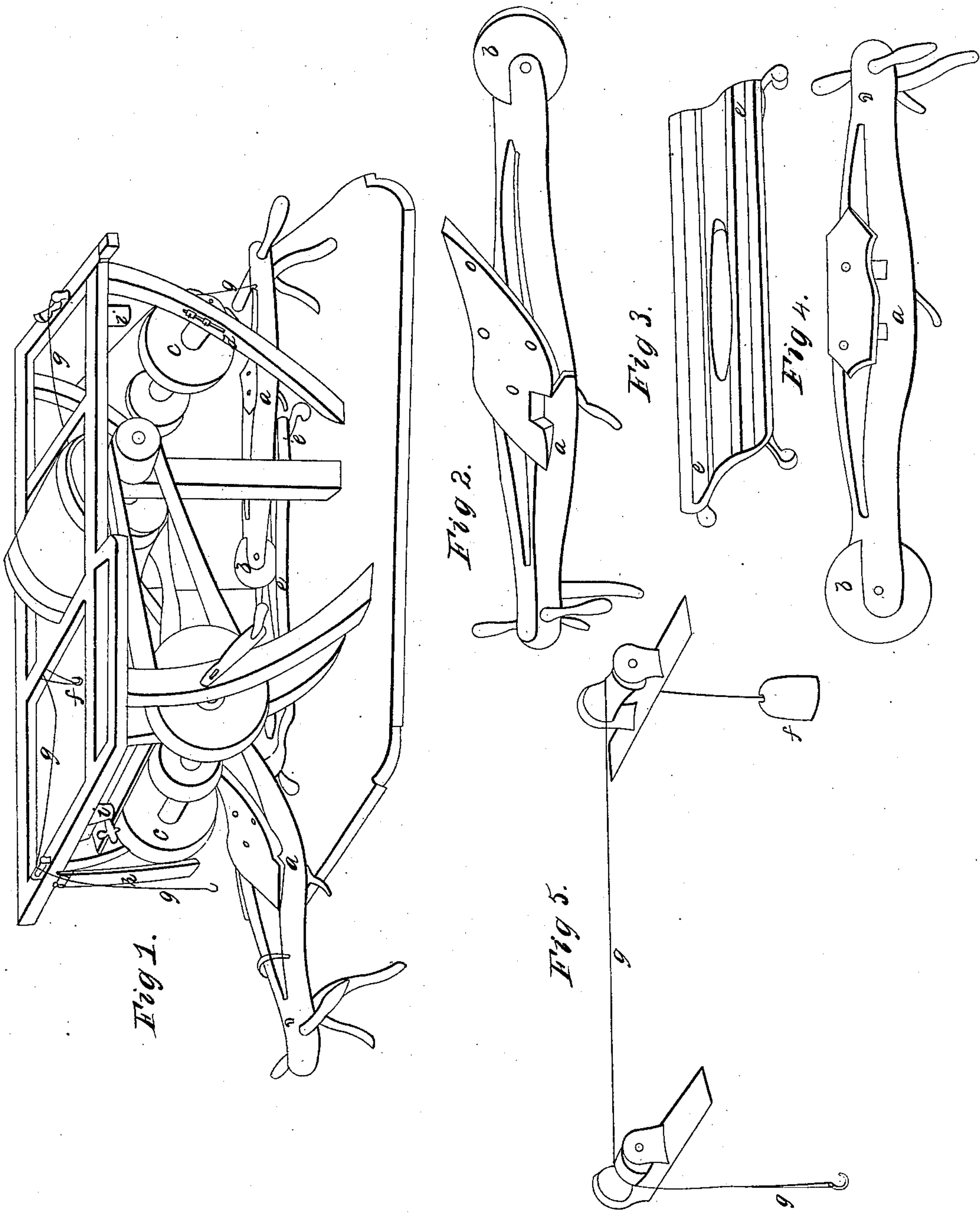


*J. Gibbs,*  
*Grinding Floor Castings.*  
*No 10,068.* *Patented Oct. 4, 1853.*



# UNITED STATES PATENT OFFICE.

JOSHUA GIBBS, OF CANTON, OHIO.

## MACHINE FOR GRINDING PLOW-CASTINGS.

Specification forming part of Letters Patent No. 10,068, dated October 4, 1853; Reissued June 2, 1868, No. 2,963.

*To all whom it may concern:*

Be it known that I, JOSHUA GIBBS, of Canton, in the county of Stark and State of Ohio, have invented a new and useful  
5 Improvement in the Mode of Grinding Plow-Castings; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to  
10 the accompanying drawings, making a part of the specification, in which—

Figure 1 is a perspective view and Figs. 2, 3, 4 and 5 are distinctive sections of my construction and improvement.

15 To enable others skilled in the art to make and use my invention I will proceed to describe its construction and operation.

I mount the stone or stones *c c*, Fig. 1, as ordinarily upon a frame of any fit shape  
20 or form and which are rotated to any desired velocity by means of a drum and pulleys, as seen in the view.

*a a* are carriages with wheels *b, b*, at one end and legs at the other as seen in Figs.  
25 2 and 4 and upon which the castings are fastened by means of a tail or thumb screw.

Fig. 3 a stand and indistinctly seen in the view has a groove *e e* on each side in which the carriage wheels roll.

30 *f* Figs. 1 and 5 represents a weight attached to one end of a rope or cord *g*, while the other end may be detached or attached at will to the carriage *a* which is thus counterbalanced by the weight against the un-

derside of the stone. The water vessel *i* 35 placed over the stone may by means of a faucet be made to drip any desired quantity of water upon it.

*h* represents a board depending before the stone to shield the operator from the  
40 water thrown by the centrifugal force.

At *d* will be seen a slit or curved mortise and contrivance for the lowering of the stone as it wears away thus always keep-  
45 ing the carriage at a convenient height.

A construction thus prepared the operator takes hold of the handles seen at the outer ends of the carriages *a a* and having an easy and perfect control of the piece  
50 to be ground moves it about and along the stone to whatever part he sees to grind. This arrangement makes it truly a labor as well as a time saving apparatus. I contemplate its being useful also to grind  
55 pieces of many known shapes, but its utility as an improved mode of grinding plow castings is what I especially desire to direct the attention to.

What I claim as my invention and desire to secure by Letters Patent is— 60

I claim the carriage upon which the casting is fastened, with the weight and grooved stand upon which the carriage is moved, arranged, and operated, as described.

JOSHUA GIBBS.

Witnesses:

GEORGE FABER,  
FERNAU FAHN.