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O. W. Seely,

Pug Mill.

Patented July 20, 1831.

Fig. 1.

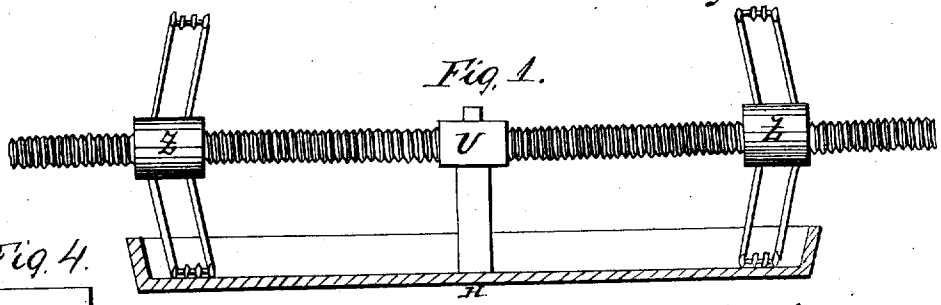


Fig. 4.

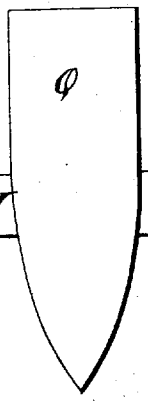


Fig. 5.

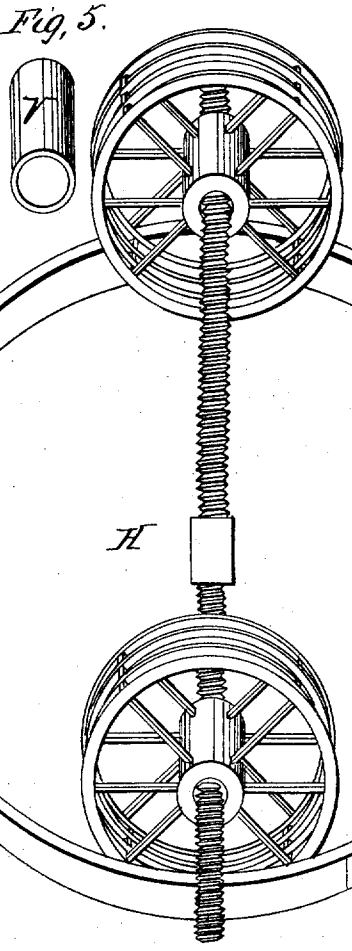


Fig. 3.

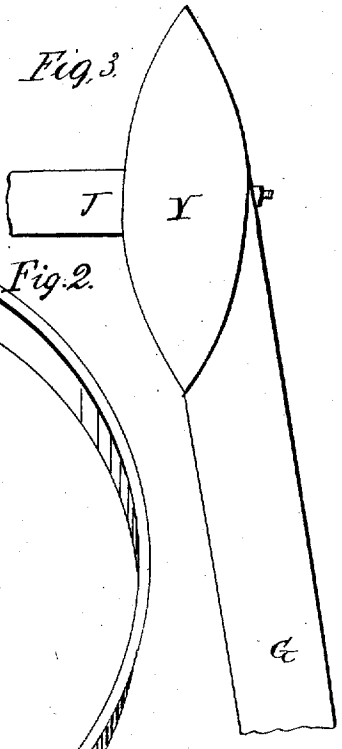


Fig. 2.

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

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July 20. 1831

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Chas W Seely of Williamson New York

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 Chas W Seely himself of his improvement in the machine for making and preparing mortar for making Brick

Be it known that I Chas W Seely of Williamson in the County of Wayne and State of New York have invented a new and useful improvement in the method of preparing mortar for the manufacture of brick and other purposes, 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.

A circular bed is formed of such diameter as may be required, around which is placed a rim or edge, (figure 1. of the annexed drawing exhibits a sectional view of the bed with the machine erected therein, and figure 2. exhibits a perspective view thereof,) in the centre of the bed is erected an upright shaft or post in the upper end of which is formed a round tenon of less diameter than the post so as to form a shoulder in the post to bear the horizontal shaft or axle on which it revolves: this horizontal shaft or axle to be made of wood or iron and of sufficient length as to extend beyond the outer edge of the bed so far as to admit a span of horses or oxen to be attached to it, to put it in motion. On this horizontal shaft or axle is cut a screw from each end to within about four feet of the middle, leaving the middle of the shaft or axle about four feet in length. Into the square part of the shaft or axle is a round mortise to receive the tenon on the upright post: the horizontal shaft or axle has the screws cut in one end so that when the wheels hereafter described are placed on it and put in motion that with which shall run to the centre at the same time. The wheels are formed

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on a long hub with four rims or fellies to each wheel, each rim or felly
seperate from the others and supported by spokes diverging from the
hub and with an inclination to the centre of the bed, or the outer
rims are thus supported and the inner ones are connected and sup-
ported by long mortises thro' them into the outer rims or fellies -
the hubs are cut with a screw so as to form a nut which shall
work on the horizontal shaft or axle - these wheels are formed of iron
or wood, or partly of iron and partly of wood. the fellies thereof on the
outer edge of the wheel are thick in the middle, and running to an
edge on the inner and outer part thereof (as in figure 3.) the inner
fellies are flat on their outer edge, and gradually tapered off to an
edge on the inner part (as in figure 4.) to the hub on the end next
the upright shaft, or post, is attached a tube of sheet iron of suf-
ficient diameter to go over the horizontal shaft or axle and so long
as to prevent the mortar mixed by the wheel from dropping on to the
shaft or axle. these wheels are placed on the shaft or axle at the outer
edge of the bed and horse or power is then placed at the ends
of the horizontal shaft. The machine thus put in motion the wheels
will work from the outer part of the bed, when the power will be
reversed and they will work from the centre to the edge, and every
revolution of the axle will cause the wheels to pass through the mor-
tar in different places, and at every revolution will cut and prep the
mortar so as to fully mix and work it, in a more effectual man-
ner, and in much less time than can be done in any other manner,
thus making a saving of time and labour in the preparation of mortar
for brick and other purposes. In this machine I only claim as my
Invention the improvement in the construction of the wheels as thus de-
scribed, and the cutting of the screw so that the said wheels shall both
work from the outer edge of the bed to the centre thereof, and from the
centre to the outer edge at the same time as they may be placed on the
shaft or axle

Witnesses { Robert Monger
Edmund H. Rickards } Owen H Seeley

(Witnessed by me)