

J. M. MOYER.
BRICK DRIER.

Fig. 2.

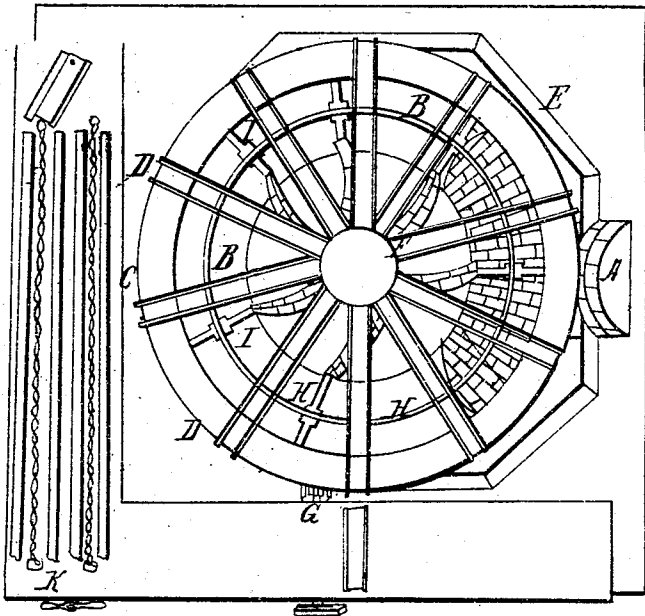


Fig. 3.

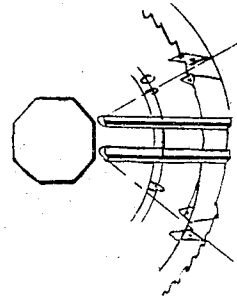


Fig. 1.

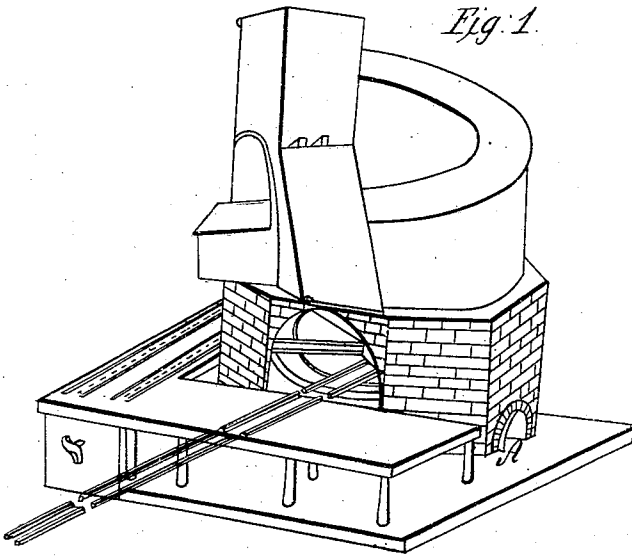


Fig. 4.

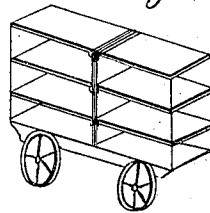
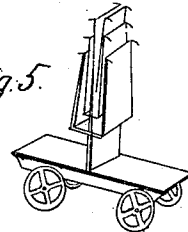


Fig. 5.



Witnesses;
 H. L. Sisson
 A. S. Nicholson

Inventor;
 J. M. Moyer

United States Patent Office.

JOHN M. MOYER, OF PITTSBURG, PENNSYLVANIA.

Letters Patent No. 79,247, dated June 23, 1868; antedated December 23, 1867.

IMPROVED BRICK-DRIER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOHN M. MOYER, of Pittsburg, in the county of Allegheny, and State of Pennsylvania, have invented a new and useful Improvement in Apparatus for Drying Brick; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the arrangement and construction of a house for drying brick, (of which Figure 1 is a perspective view,) by the application of a furnace with one or more flues, and the construction and arrangement of a turn-table, provided with tracks to receive cars when loaded with brick to be dried, and, when dried, to discharge them, by means of an endless chain arranged for the purpose, as shown in Figures 2 and 3, which are sectional views; the cars, Figure 4, being a sectional drawing and perspective view, and Figure 5 a longitudinal elevation, being specially built and conveniently arranged for loading and unloading brick without the removal of the leaves from the car.

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

I construct the furnace A of fire-brick, and the flue or heater B B of brick, sheet iron, or other material, of any given size, in circular form, upon a brick foundation resting on the ground; the furnace A, fig. 2, being upon the one side of the flue or heater B B, with which it connects, the heat passing from the furnace around the flue. I place the smoke-stack C on the opposite side of the flue from the furnace, on the outside of the turn-table D D, and on the inside of the wall E, to carry off the smoke, the heat being retained and regulated by a damper. I place a rest or foundation in the inner circle of the flue or heater, with upright shaft or spindle, upon which the centre of turn-table hub rests and revolves, (see letter F, fig. 2.) I construct the turn-table D D of cast iron or other metal, in sections, as shown in fig. 3, which, when placed together with bolts, form a circle, (see fig. 2,) the outer band of which, or support for trucks, is provided with cogs underneath, which play into cogs of pinion-wheel G, attached to power-shaft. The wire or single track H H, which supports the outer part of turn-table, revolves upon the grooved pulley-wheels I I, made to revolve and vibrate or slide upon shafts resting upon uprights or pillows, according to the expansion and contraction of the turn-table, caused by the heat. I place or cast upon the outer band or rim, and wire or single track, connecting with hub in centre, any given number of tracks, to admit and discharge cars, radiating to and from the centre, as shown in fig. 2; the cars being carried, by means of the railway and endless chain K, fig. 2, from brick-machine to dry-house, and thence to kiln, (see fig. 1,) the chain working over a drum, and revolving upon a ratchet-wheel connected with power-shaft. I place a close stone, brick, or sheet-iron house over the furnace and turn-table, to retain the heat, with door to admit cars, (see fig. 1.) An inclined circular track may be used, as shown in drawings, fig. 1, on top of dry-house, in lieu of tracks, as described.

I build cars, to be used in connection with and as part of the drier, of sheet iron or other material, upon any ordinary truck, with upright centre-plate, to which I attach leaves, (see figs. 4 and 5,) by means of hinges, so constructed and arranged as to allow clearance for each successive leaf, when raised to a vertical or upright position, (see fig. 5,) where it remains until lowered, the flange of the hinge passing along beneath the leaf, imparting strength, and forming a leg, upon which it rests, as shown in figs. 4 and 5. When the car is being filled, the leaves are lowered as needed, and raised while emptying.

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

The turn-table, with car-tracks, with heater beneath, in combination with the grooved pulley-wheels, arranged and operating substantially as and for the purpose herein described.

I claim the car, with upright centre-plate, and hinged folding leaves, constructed and operating in manner and form as described, to and for the purpose intended.

In testimony whereof, I, the said JOHN M. MOYER, have hereunto set my hand,

J. M. MOYER.

Witnesses:

A. S. NICHOLSON,
J. CHAS. DICKEN.