J. HYDE & A. BARKER.
Brick-Cleaning Machine.

No. 203,622. Patented May 14, 1878.

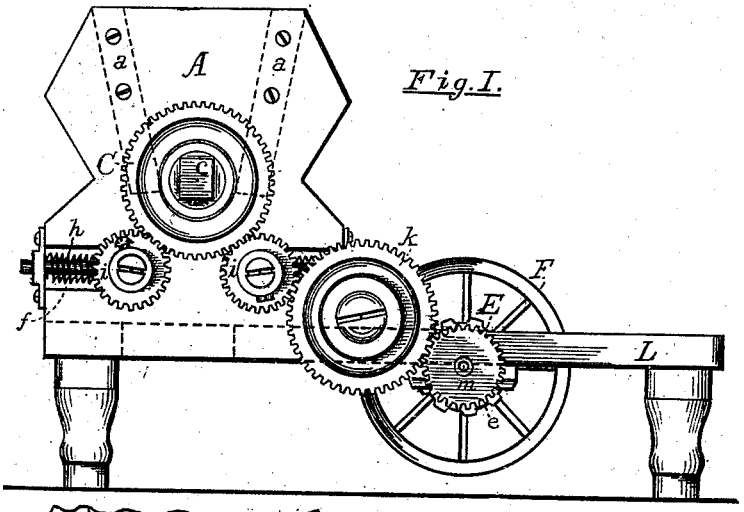

Fig. I.

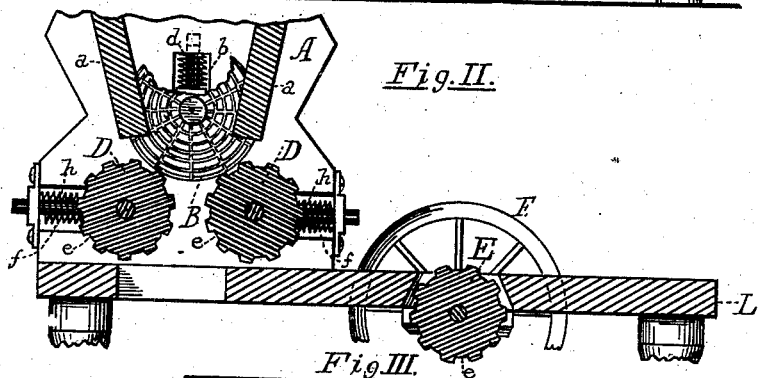

Fig. II.

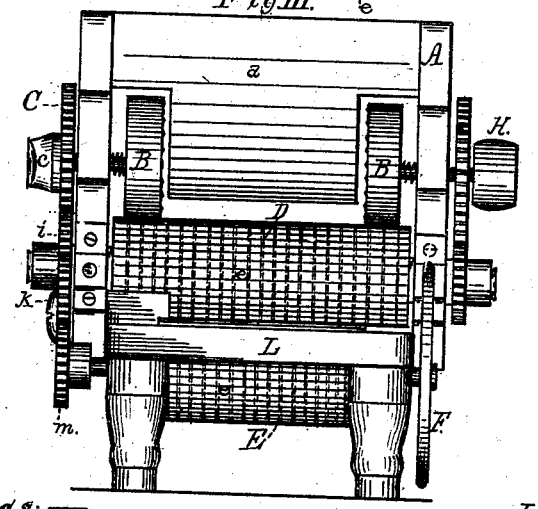

Fig. III.

Witnesses:

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UNITED STATES PATENT OFFICE.

JOSEPH HYDE AND ADAM BARKER, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN BRICK-CLEANING MACHINES.

Specification forming part of Letters Patent No. **203,622**, dated May 14, 1878; application filed April 12, 1878.

To all whom it may concern:

Be it known that we, JOSEPH HYDE and ADAM BARKER, of Baltimore, in the county of Baltimore and State of Maryland, have invented a new and useful Improvement in Brick-Cleaning Machines, of which the following is a specification:

Our invention relates to a machine for cleaning old bricks, the object being to remove the hard mortar that may be adhering to them, in order to render them fit to use again for building purposes.

Our invention will first be described in connection with the accompanying drawing, and then pointed out in claims.

In the drawing, Figure 1 is a side elevation of a brick-cleaning machine embodying our improvements. Fig. 2 is a vertical longitudinal section of same, a portion being broken away. Fig. 3 is an end view.

A represents the hopper, having sloping sides *a a*, in the top of which the bricks are placed endwise, one at a time. At each end of the hopper is a rotating disk, B, the face of which is serrated in any suitable manner. Each of the journals *c* supporting these disks has its bearings in a box that has vertical movement in a slot, *b*, in the ends of the hopper, (see Fig. 2,) and a spiral spring, *d*, placed in the slot above the box, tends to press the journal down. A cog-wheel, C, is keyed to the outer projecting end of the journals on each side of the machine. Extending across the machine, below the hopper, are two parallel rollers, D, having longitudinal ribs or corrugations *e*. The journals of these rollers have bearings in boxes which rest in horizontal slots *f*, and which are pressed from their outer sides inward by the spiral springs *h*. Small pinions *i* are keyed to the journals and gear with the wheel C. By this construction the ribbed rollers D are permitted to slightly yield laterally, at the occurrence of which the wheel C is depressed, and thus keeps in gear with the pinions *i*.

The roller E is ribbed in a similar manner to rollers D D, and is operated by the gear *k* *m*. The balance-wheel F is mounted on the other extremity of the shaft on which this roller revolves.

The size of hopper, the space between the disks B B, and the space between the rasping-rollers D D are all arranged to permit the bricks to be fed in endwise. The rollers revolve in the same direction, the effect of which is to rasp the opposite sides of the brick in a contrary manner. Thus there is no liability of the brick slipping through without being cleaned.

Power may be applied to the pulley H. The operator stands at the end of table L, and applies the ends of the brick alternately to the rasping-roller E, and then places the same in the hopper, whence they pass through and out below.

It will be seen that, while provision is made for the rollers D yielding to allow the passage of bricks of varying thicknesses, there is no liability of the pinions being thrown out of gear.

We are aware of the construction shown in United States Patent No. 89,263, dated April 20, 1869, for a machine for cleaning bricks, and such we do not claim.

Having described our invention, we claim—

1. In a brick-cleaning machine, the rotating disks B, wheel C, gearing with the pinions *i*, and rasping-rollers D, the bearings of which rest in horizontal slots *f* and are pressed inward by the springs *h*, substantially as shown and described.

2. The combination, in a brick-cleaning machine, of hopper A, having sloping sides *a a*, rotating disks B, having serrations, and the journals of which have a vertical movement in slots *b*, and spiral springs *d*, wheels C, pinions *i*, and rasping-rollers D, arranged to permit a slight lateral movement, as and for the purpose specified.

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Witnesses:
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