

No. 111,000.

PATENTED JAN. 17, 1871.

S. PUTNAM & T. BURT.
MACHINE FOR MIXING CONCRETE, &c.

2 SHEETS—SHEET 1.

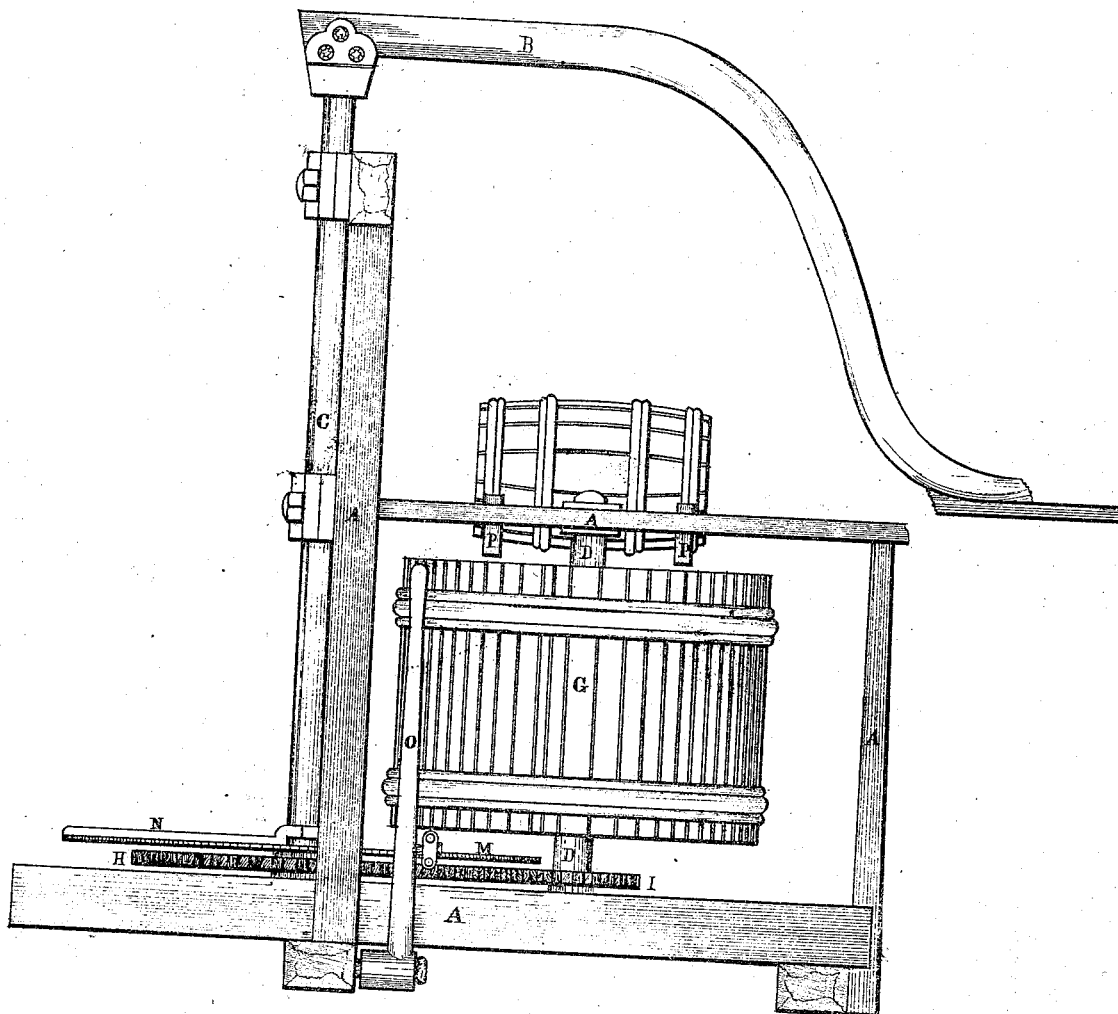


Figure 2.

Witnesses:

Robert M. Fryer
Timothy O'Meara

Inventors,

Silas Putnam
T. Burt

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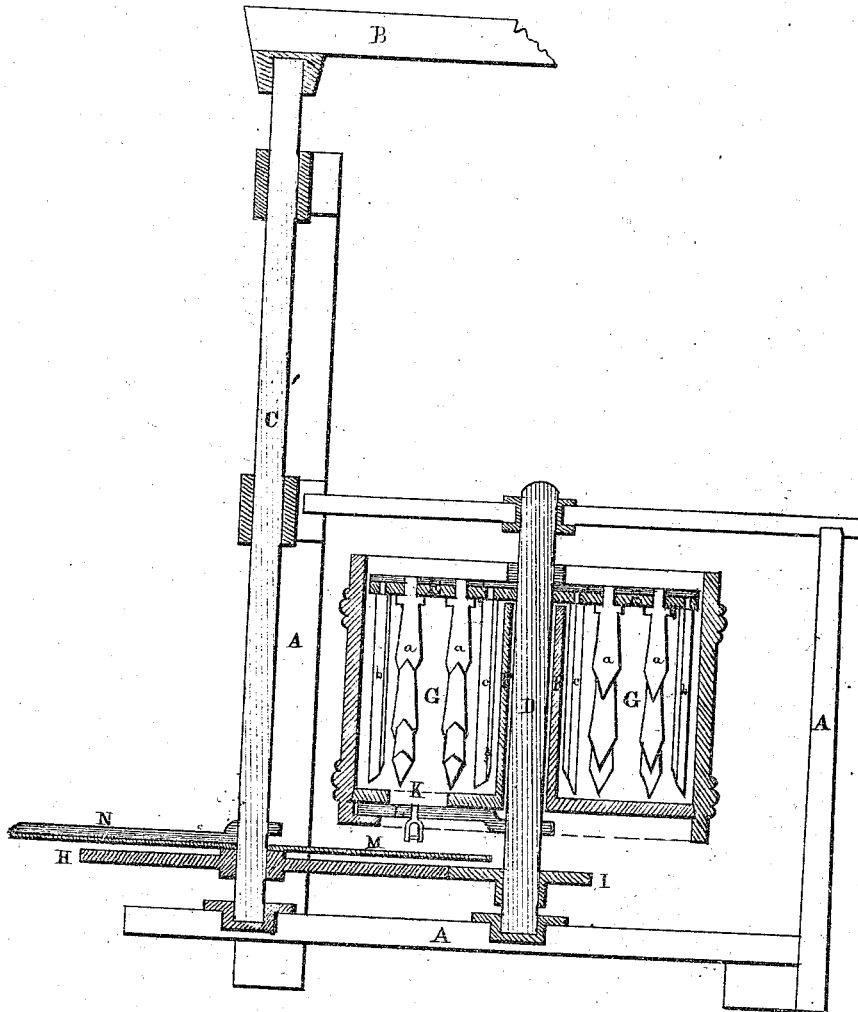


Figure 1.

Witnesses:

Robert M. Fryer
Timothy O'Hara

Inventors,

Lucas Putnam
H. Burt

United States Patent Office.

SILAS PUTNAM AND THOMAS BURT, OF ROCKVILLE, CONNECTICUT.

Letters Patent No. 111,000, dated January 17, 1871; antedated January 5, 1871.

IMPROVEMENT IN MACHINES FOR MIXING CONCRETE, &c.

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

To all whom it may concern:

We, SILAS PUTNAM and THOMAS BURT, of Rockville, in the county of Tolland and State of Connecticut, have invented certain new and useful Improvements in Machines for Mixing Concrete, and compositions of a like or similar nature.

The first part of our invention relates to the attachment of a number of plows, knives, and scrapers to a shaft revolving in a tub. The object of this part of our invention is to cut up and mix together in a uniform manner the compositions of concrete or other similar combinations in the tub.

The second part of our invention relates to the combination with a revolving table and a scraper attached, and to an adjustable discharge-gate at the bottom of the tub, for the purpose of discharging and delivering the concrete or other material after mixing.

Description of Drawing.

Figure 1 is a vertical sectional view.

Figure 2 is a front view, showing a general outline.

A is the frame of the machine, which should be substantially constructed.

B is the driving-sweep, attached to the main shaft C, by which motion is given to the operating parts.

D is a shaft running up through tub G, extending from which are arms, E, to which are attached the plows, knives, and scrapers, *a b c*.

F is a tubing around shaft D, inside the tub, to prevent its contents from coming in contact with the shaft or escaping from the tub.

H and I are gear-wheels, connecting the shafts C and D.

K is an opening in the bottom of tub G, for discharging its contents.

L is a slide or gate under the tub, for opening and closing K, by means of a rod and lever attached.

M is a revolving table, attached to shaft C, to receive the contents of tub G, which is forced or delivered from its surface by the scraper N.

O is a lever and rod attached to gate L.

P are brackets, for supporting a barrel or other vessel containing coal-tar or other material to be delivered into tub G.

The coal-tar, gravel, and other ingredients are put into the tub G, and, when the machine is in motion, are cut up and mixed together in a uniform manner by the plows, knives, and scrapers *a b c* attached to the revolving arms E, so as to form a concrete.

When ready for removing the gate L is opened, by means of lever and rod O, and the concrete is allowed to pass through and is received on the revolving table M, and carried by it until it comes in contact with scraper N and is forced or delivered from the table.

Claim.

We claim as our invention—

1. The combination of the plows, knives, and scrapers *a b c*, operating inside the tub G by means of arms E, and shaft D protected by tube F, the discharge K, the gate L, and the lever and rod O, substantially as and for the purpose hereinbefore set forth.

2. The combination of the revolving table M, attached to and operated by the shaft C, and the scraper N, substantially as and for the purpose hereinbefore set forth.

3. The combination of the plows, knives, and scrapers *a b c*, the tub G, arms E, shaft D, tube F, discharge K, gate L, lever and rod O, operating in connection with the revolving table M, shaft C, and scraper N, by means of the gear-wheels H and I, substantially as and for the purpose hereinbefore set forth.

Witnesses:

ROBERT M. FRYER,
TIMOTHY O'MEARA.

SILAS PUTNAM.
THOS. BURT.