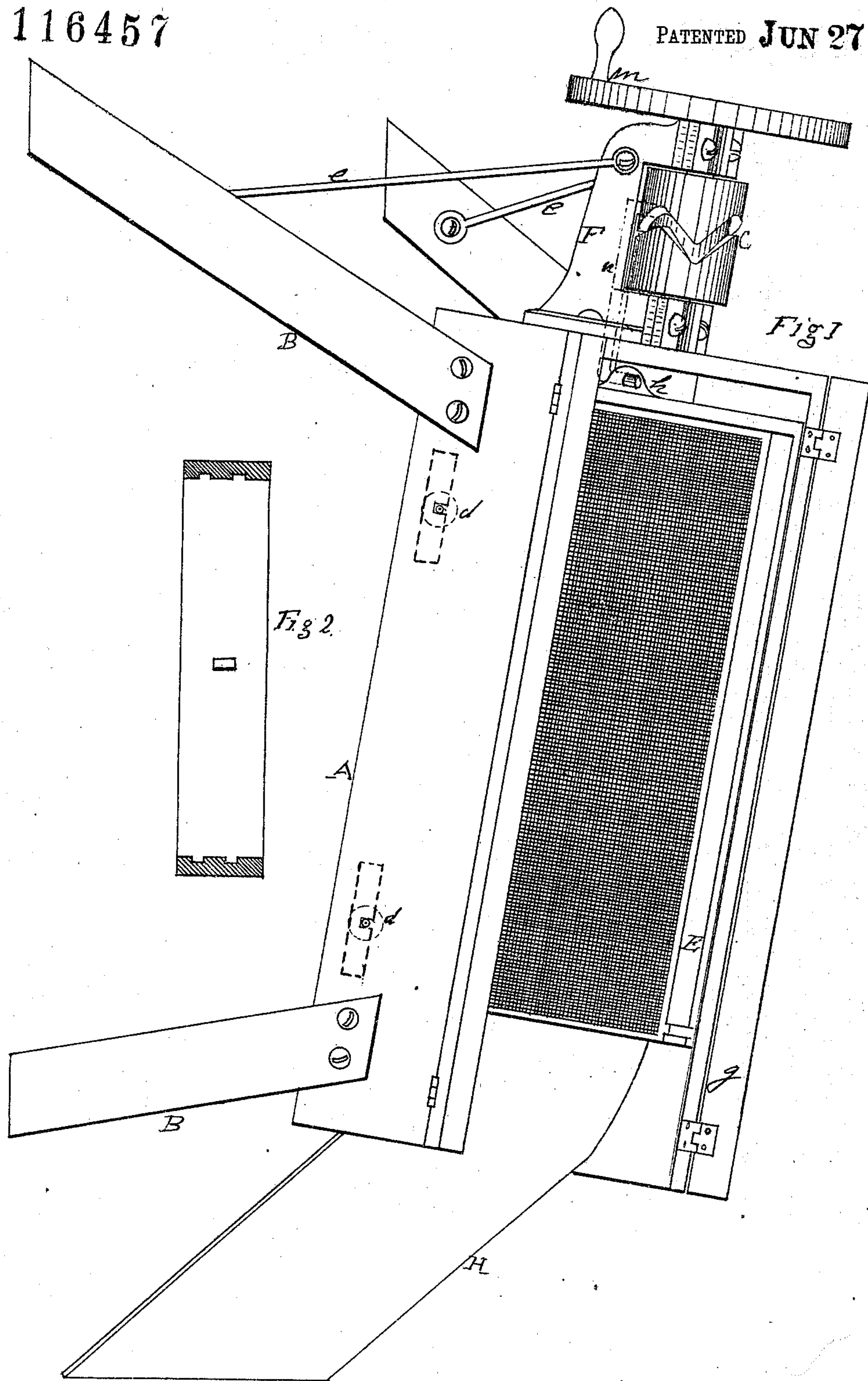


B.N. LAMPMAN'S SAND SIFTER.

116457

PATENTED JUN 27 1871



Witness

C. Alexander
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Inventor

B. N. Lampman
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UNITED STATES PATENT OFFICE.

BENJAMIN M. LAMPMAN, OF RUTLAND, VERMONT.

IMPROVEMENT IN SIFTING-MACHINES.

Specification forming part of Letters Patent No. 116,457, dated June 27, 1871; antedated June 7, 1871.

To all whom it may concern:

Be it known that I, BENJAMIN N. LAMPMAN, of Rutland, in the county of Rutland and State of Vermont, have invented certain new and useful Improvements in Gravel-Sifting Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon which form a part of this specification, in which—

Figure 1 is a perspective view of my sand-sifter. Fig. 2 is a plan view of the upper end of the same.

The nature of my invention consists in the construction of a sand-sifter in the manner set forth.

A represents the frame of my machine, which is supported by two legs, B, on each side, the legs at the upper end of frame A being a little longer than those at the lower end, in order to give the required inclination to the sifter. On the inner sides and near the lower edge of frame A are the pulleys *d*, in dotted lines. The said pulleys play in cleats fastened to the frame A. E designates a sifter-frame containing a wire screen. The frame E will have grooves in the inner side for the reception of one or two sifters, as the case may require, and will rest at bottom on pulleys *d*, shown in dotted lines, and confined at top by the hinged slats *g*. F is a block fastened to the upper end of frame A, and braced at its outer end by rods *e*. The block F is cut down on its upper surface so as to receive the cam C, the said cam having a spindle passing length-

wise through it, to the outer end of which is attached the crank-wheel *m*. *n*, shown in the dotted lines, represents an iron rod bent upward at right angles at both ends. One end of said rod enters an eye through the metal plate *h*, which is secured to the end of sifter-frame E. The other end moves in the groove in cam C. In order to keep the rod *n* in place it will pass through a mortise in the end of frame A. Secured to the end of frame A is the tail piece H, which is designed to carry off all material too gross to pass through the screen in frame E. By turning the cam C a reciprocating motion will be given to the screen, by means of the rod *n*, sufficient for all sifting purposes.

My sifter can be used for coal and ashes as well as for sand.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The roller C, provided with a zigzag groove-rod, *n*, sifter E, tail piece H, and crank-wheel *m*, all arranged to form a coal or ash sifter, substantially as described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

B. N. LAMPMAN.

Witnesses:

JOEL C. BAKER,
H. P. SISSON.