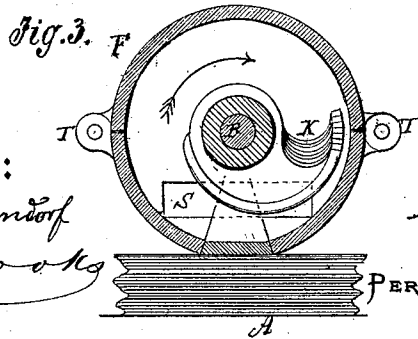
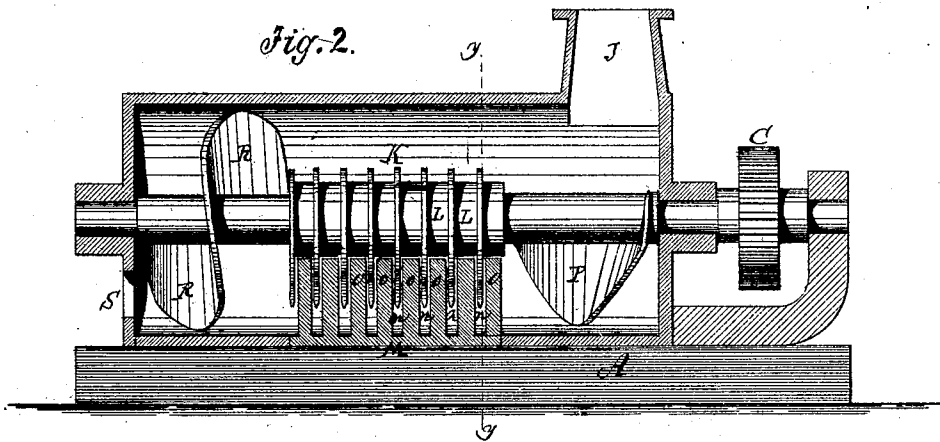
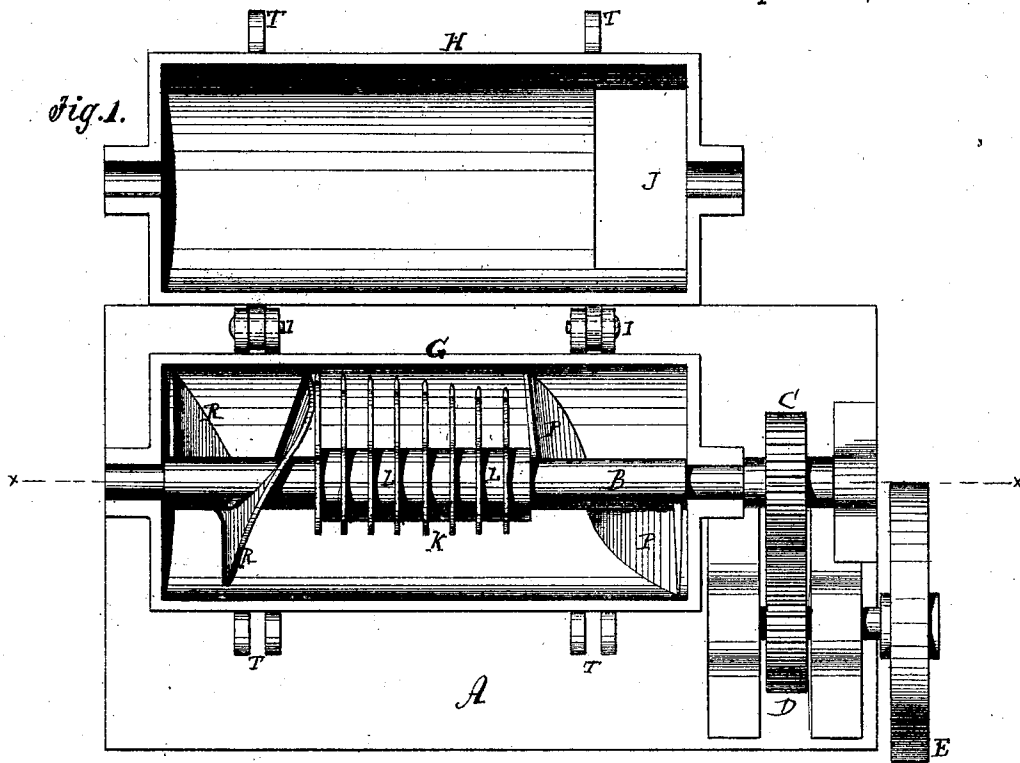


C. LUXTON.
Peat Machine.

No. 101,478.

Patented April 5, 1870.



Witnesses:

A. Penneker
J. Brooks

Inventor:

C. Luxton
PER
Attorneys.

United States Patent Office.

CHARLES LUXTON, OF HUDSON CITY, NEW JERSEY.

Letters Patent No. 101,478, dated April 5, 1870.

IMPROVEMENT IN PEAT-MACHINES.

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, CHARLES LUXTON, of Hudson City, in the county of Hudson and State of New Jersey, have invented a new and useful Improvement in Peat-Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification.

This invention relates to a new and useful improvement in machines for working peat and preparing it for fuel; and consists in operating a series of revolving cutters or knives in combination with a stationary bed, and in combination therewith, conveyer wings, for carrying the peat to and from the cutters, the whole inclosed in a suitably-constructed cylindrical casing, as hereinafter more fully described.

In the accompanying drawing—

Figure 1 represents a top view of the machine, with the cover turned back.

Figure 2 is a vertical longitudinal section of fig. 1, on the line *x z*.

Figure 3 is a vertical cross-section of fig. 2 on the line *y y*.

Similar letters of reference indicate corresponding parts.

A is the platform or bed-plate upon which the machine is supported.

B is the shaft upon which the knives and wings are fastened.

The shaft is revolved by means of gear-wheels C D and belt on the wheel E, or in any other suitable manner.

F is the cylindrical casing or shell, made in two parts, G and H. The former is made fast to the bed-plate A and the latter is hinged to the part G, as seen at I I, so that the operating parts may be readily exposed to view, as seen in fig. 1.

J is the hopper, attached to or forming part of the cover H, through which the peat is introduced.

K represents a series of cutters or knives, fastened on the shaft in any suitable manner, so that they cannot turn independently of the shaft.

These cutters are separated by the collars L, and

kept at a proper and uniform distance apart, so that they engage with the vertical slots *n* in the bed-piece M.

These slots in the bed leave vertical studs or teeth, *o*, of rectangular form in their cross-section, but tapering edgewise, as seen in fig. 3. A side view of the cutters is also seen in this figure.

By making the bed-piece M with the slots *n* and studs *o*, as seen, the cutters may be revolved in an opposite direction from that indicated by the arrow for cleaning or washing the machine, or other purposes.

Directly beneath the hopper or orifice J, and firmly attached to the shaft, is a spiral wing, P, so placed as to convey or force the peat toward the cutters.

After the peat has passed through the cutters there is another spiral wing, R, which receives the comminuted peat from the cutters and forces it from the machine, through the orifice S, in a broad sheet, as indicated by dotted lines in fig. 3.

By this machine the peat is operated upon as it is taken from the peat-bed and delivered in a finely comminuted state in a sheet suitable for drying. The sheet is cut up, before drying, into suitable-sized pieces for convenient handling after being dried.

The machine is driven by steam, water, or other convenient motive-power.

The top part of the casing is fastened down to the other part by means of pins or screws through the lugs T, or in any other suitable manner.

This is a simple, cheap, and efficient machine for preparing peat for fuel, and its advantages over the complicated and expensive machines now in use for that purpose must be obvious to all who are acquainted with the subject.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

In combination with the bed M, cutters K, and the casing G H, the conveyer wings P and R, arranged and operating substantially as and for the purposes set forth.

CHARLES LUXTON.

Witnesses:

GEO. W. MABEE,
ALEX. F. ROBERTS.