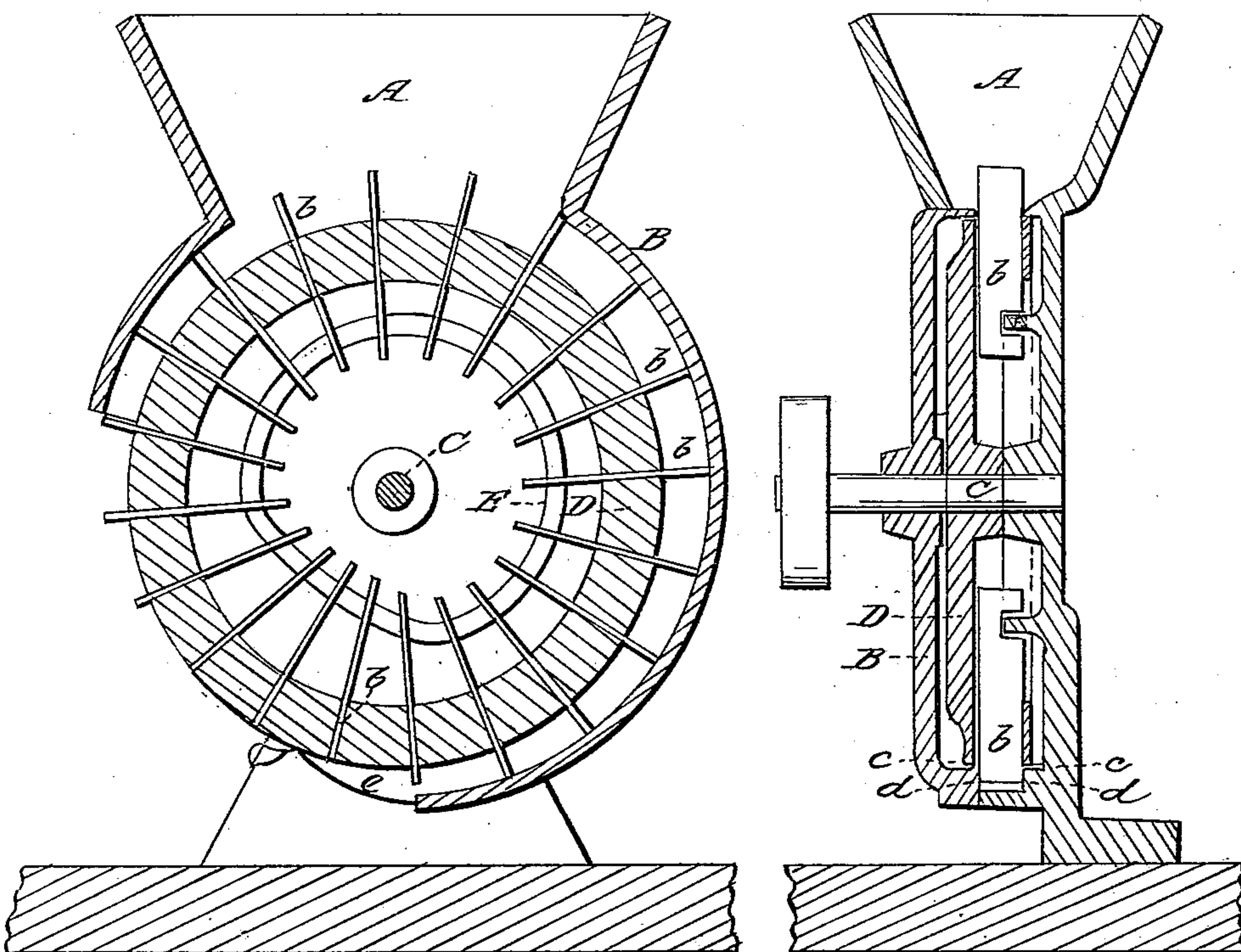


Peat Machine.

Patented Jan. 22, 1867.

Fig. 2



J. W. Coombs
G. W. Reed

S. B. Treacen
Per his attorneys
Brown Coombs & Co.

United States Patent Office.

STEPHEN B. GREACEN, OF NORWICH, CONNECTICUT.

Letters Patent No. 61,418, dated January 22, 1867.

IMPROVED PEAT MACHINE.

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, STEPHEN B. GREACEN, of Norwich, in the county of New London, and State of Connecticut, have invented a certain new and useful Improvement on Machines for Pressing and Moulding Peat, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming part of this specification, and in which—

Figures 1 and 2 represent sectional elevations, at right angles to each other, of a peat-pressing and moulding machine constructed according to my improvement.

Like letters of reference indicate like parts in both figures.

The nature of my invention consists in a novel combination, for pressing and moulding peat, of a revolving cylinder or ring provided with radial sides to the moulds and arranged within an outer stationary cylinder or partial cylinder, the inner periphery of which, excepting at the edges of the rotating cylinder, where the shape is or may be concentric, is eccentric to said latter cylinder, in which eccentric portion the radial slides operate and are separately worked in and out by their gear with a fixed cam of irregular form, receiving in between them from a hopper the ground or prepared peat, and by the eccentric position of the cylinders and sliding sides to the moulds, gradually pressing and forming the peat into suitably shaped blocks, without the aid of plungers, and delivering the blocks through a break or opening in the outer cylinder, where, or a little beyond, a knife or scraper is arranged for clearing the revolving cylinder of any adhering peat.

Referring to the accompanying drawing, A represents a hopper, into which the ground or worked peat is placed, and which communicates with a stationary cylinder or partial outer cylinder, B. Eccentric to this outer cylinder is a revolving shaft, C, that carries and serves to rotate an inner cylinder, D, concentric to the shaft. This inner cylinder is provided with a series of radial slides, *b*, projecting through it, their inner ends being grooved so as to gear with a fixed internally arranged and irregular shaped cam, E, and their outer ends, which form sides to the moulds, projecting into the space lying between the outer and inner cylinders B D. The edges *e* of the revolving cylinder D, work within ring projections, *d*, concentric to the latter. The two cylinders thus arranged, the peat is received from the hopper into or between the radial slides of the revolving cylinder projecting therein, and by the rotation of said cylinder is carried round the one side of the partial eccentric cylinder, gradually pressing and forming the peat into blocks, and delivering the latter through a break or opening, *e*, on to an endless apron or other conveyer or receiver, the sides of the moulds or radial slides *b*, being each and separately worked inwards during the pressing and moulding action, by their gear with the irregular cam E, till after delivery of the blocks they are drawn within the outer periphery of the rotating cylinder, when they will offer no obstruction to a fixed knife or scraper, *f*, that serves to detach any adhering peat from said cylinder. By this arrangement, construction, and operation of parts, it will be observed, the pressing and moulding of the peat is effected gradually by the eccentric position of the two cylinders relatively to each other, without the aid of plungers, while the radial slides *b*, working separately inwards during such action, serve to level or smoothen the sides or ends of the blocks, and draw on them in a manner that prevents their adhesion to the outer cylinder, which facilitates and makes regular the delivery.

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

1. The combination, with the eccentric outer cylinder B, and irregular cam E, of the revolving inner cylinder D, with its separately operating radial slides *b*, forming sides to the moulds, the whole being constructed and arranged for operation together, substantially as and for the purpose herein set forth.

2. The combination, with the revolving cylinder D, slides *b*, and cam E, of the knife or scraper *f*, arranged for operation in relation thereto as shown and described.

S. B. GREACEN.

Witnesses:

EDWIN ALLEN,
SOLOMON LUCAS.