(150.)

Thomas B. VanPelt.

Inj'd. Rotary Steam Engine.

Sheet No. 1
2 Sheets

No. 122,789. Patented Jan. 16, 1872.

Fig. 1.

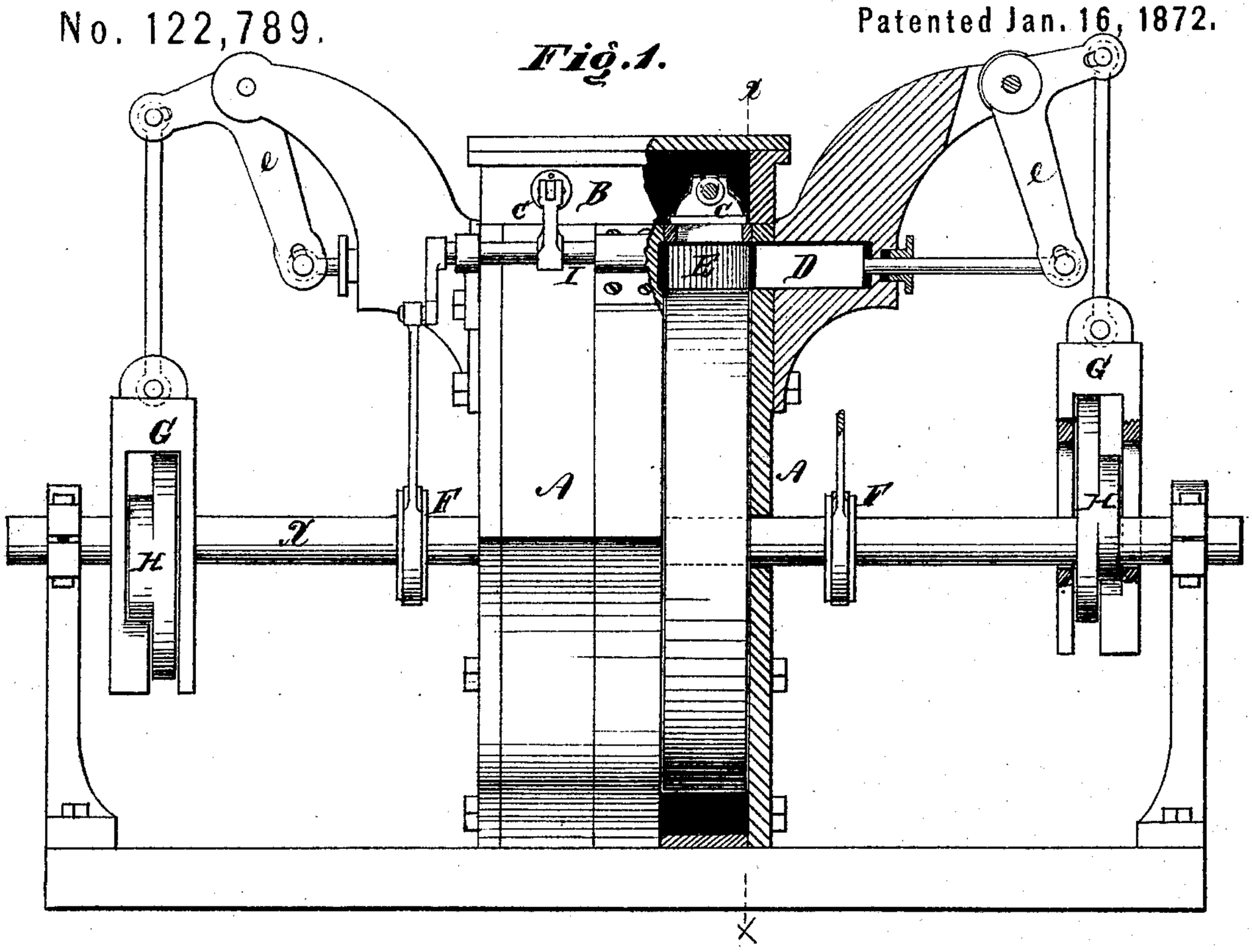
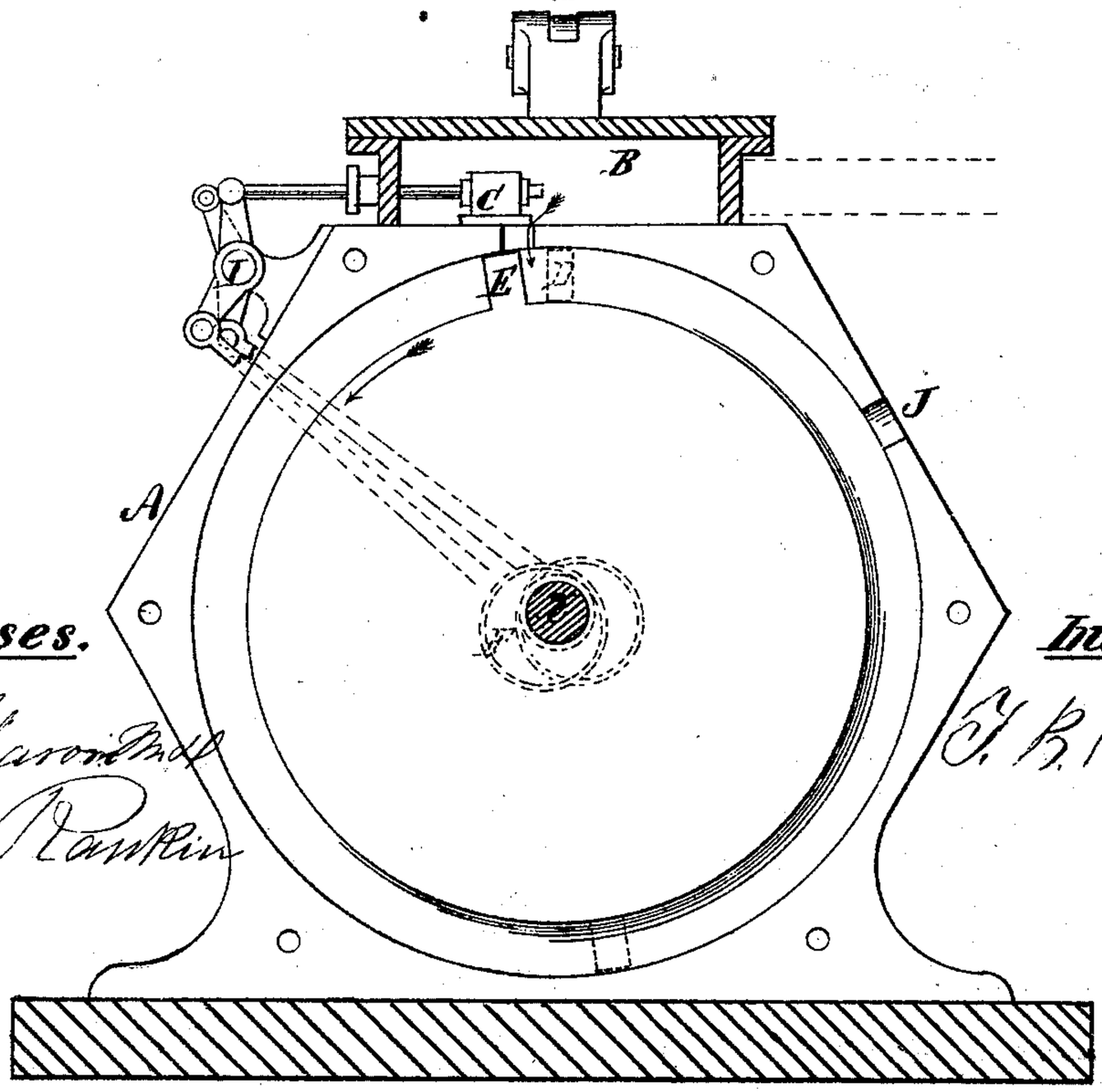


Fig. 2.



Witnesses.

E. A. Sharon Jr.

J. L. Rawlins

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Sheet N°2
2 Sheets.

No. 122,789. Patented Jan. 16, 1872

Fig. 3.

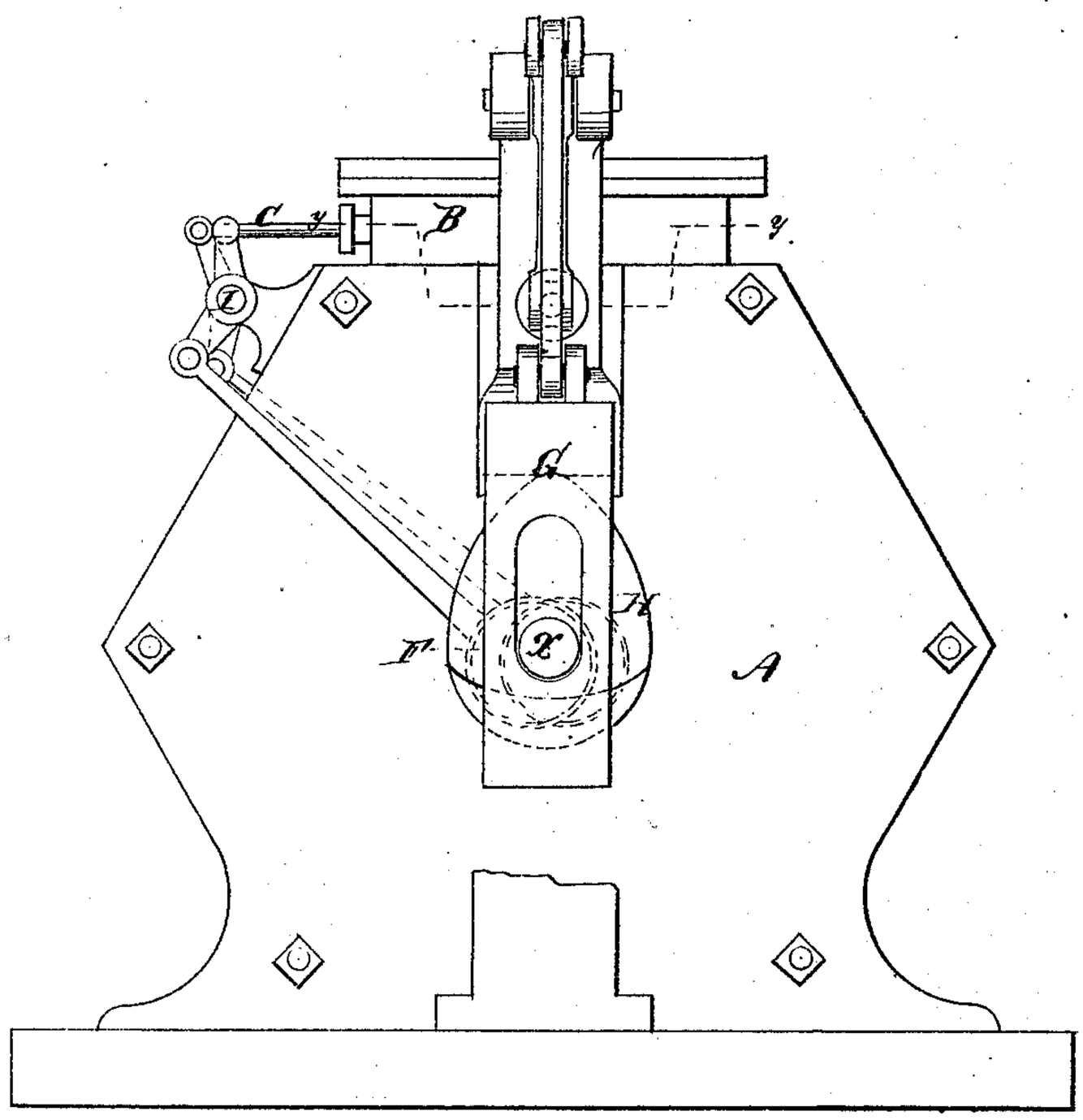
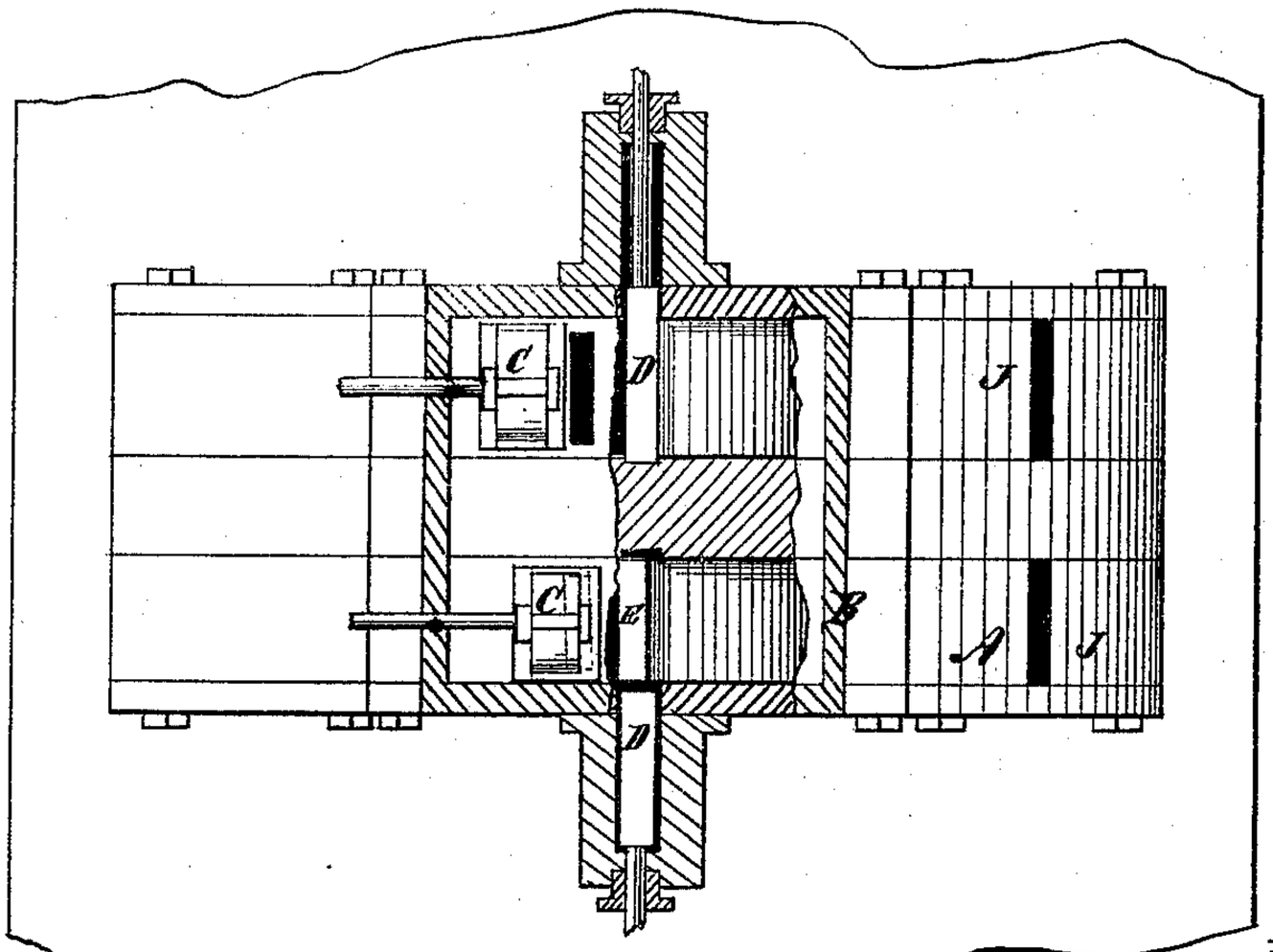


Fig. 4.



Witnesses.

E. A. Sharon Md D

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UNITED STATES PATENT OFFICE.

THOMAS B. VAN PELT, OF SPRING HILL, KANSAS.

IMPROVEMENT IN ROTARY STEAM-ENGINES.

Specification forming part of Letters Patent No. 122,789, dated January 16, 1872.

To all whom it may concern:

Be it known that I, THOMAS B. VAN PELT, of Spring Hill, in the county of Johnson and State of Kansas, have invented a new and useful Improvement in Double or Rotary Steam-Engines; 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 model forming part of this specification.

This invention relates to new and useful improvements in rotary steam-engines for giving the full power of steam; and consists in the construction and arrangement of parts as hereinafter described.

In the accompanying drawing, A A represent the cylinders, which are placed around the main shaft *x*. B is the steam-chest. C C C C are the cut-off rods and valves, which are thrown open and shut alternately by the rock-shafts I I and eccentrics F F, placed opposite on the shaft, so as to admit steam on one of the steam-heads E E as it shuts it off of the other, thus giving steam on one or the other all the time. D D are the cylinder-heads, which are movable or adjustable, and are thrown back by the cams H H alternately as the steam-heads E E pass, and are thrown back into a seat or recess, making them permanent or solid, to resist the pressure as it is thrown between it and the steam-heads E E. E E are revolving steam-heads made fast to the main-shaft by a disk, one in each cylinder. The heads are set opposite to each other on the shaft so that one has the pressure of steam while the other is passing the cylinder-head D, giving equal pressure all the time. When the steam strikes one the other exhausts at J; then the cylinder-head D is relieved of all pressure and is thrown back to let the steam or revolving head pass. By this arrangement the cams H H have nothing to do but simply throwing the weight of the cylinder-head D back. F F are two eccentrics placed on the shaft so as to throw the valves C C open alternately. G G are the cam-yokes. H H are the cams placed on the shaft so as to throw back the cylinder-heads alternately. I I are the rock-shafts. J J are the exhaust-ports.

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

The described arrangement with the single rotary-shaft *x* of the cylinders A A, connecting with steam-chest B, the disk-pistons, the eccentrics F F, cams H H, yokes G G, sliding heads D D, levers *e e*, rock-shaft I, and cut-off valves C, all constructed, connected, and operating, as herein set forth.

THOMAS B. VAN PELT.

Witnesses:

I. C. MCCORMICK,

HENRY FORBES.

(150)