

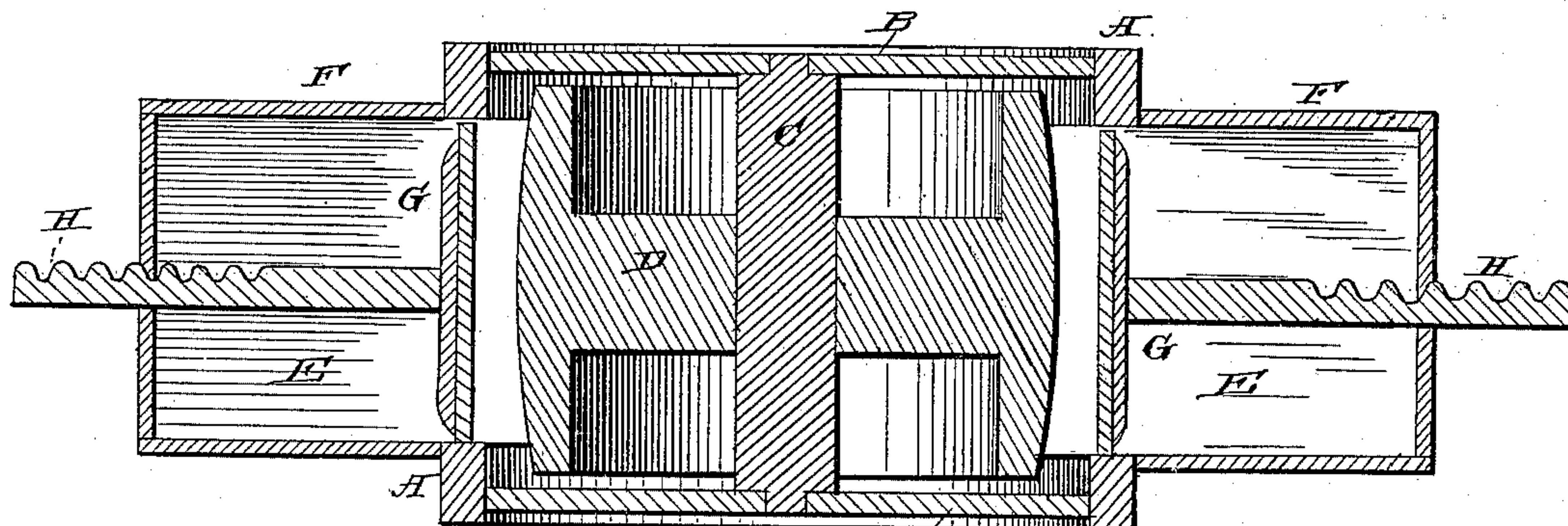
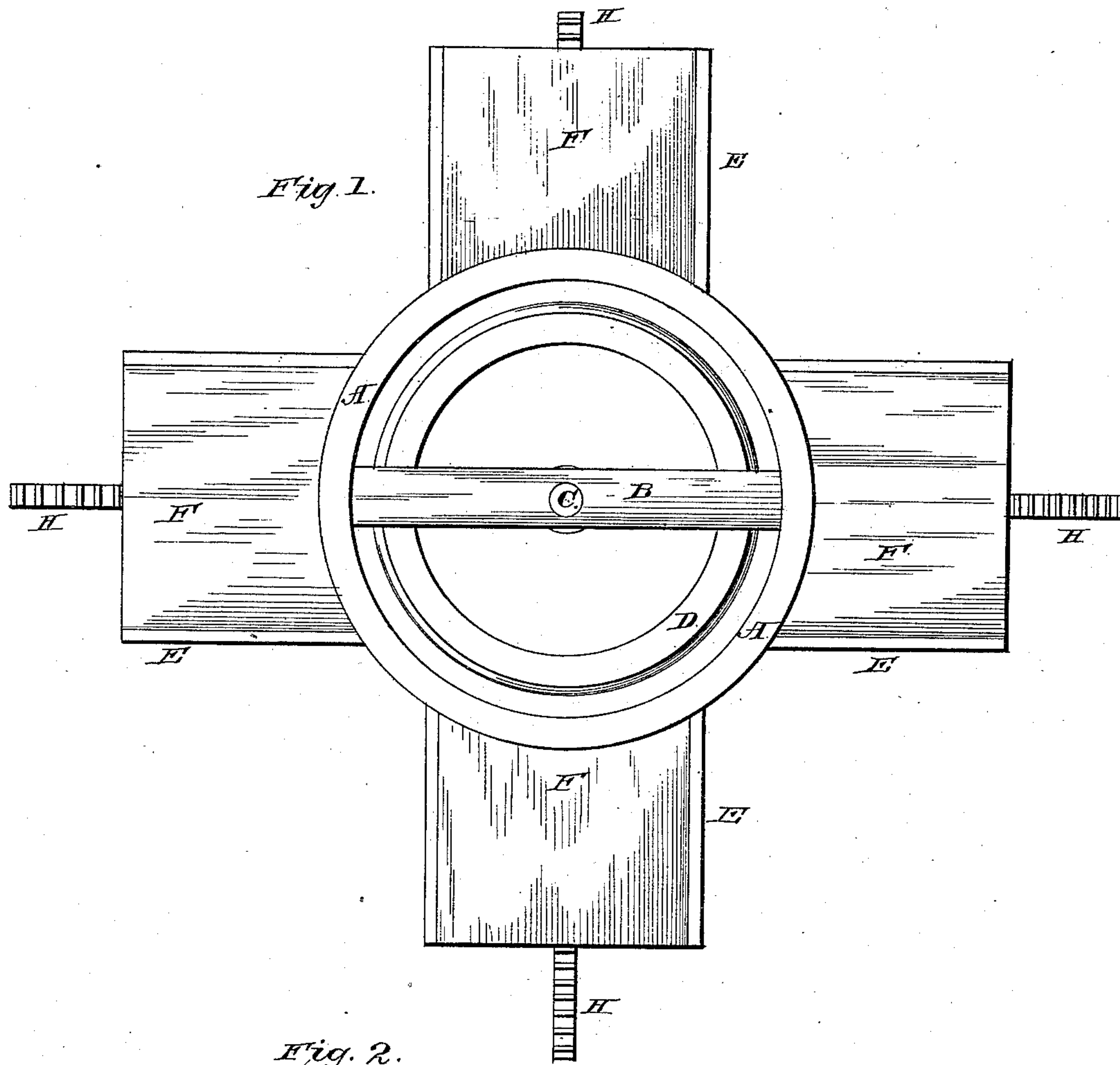
(No Model.)

2 Sheets—Sheet 1.

R. CARTMELL.
WOOD PULP MACHINE.

No. 257,436.

Patented May 2, 1882.



WITNESSES

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(No Model.)

2 Sheets—Sheet 2.

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Fig. 3.

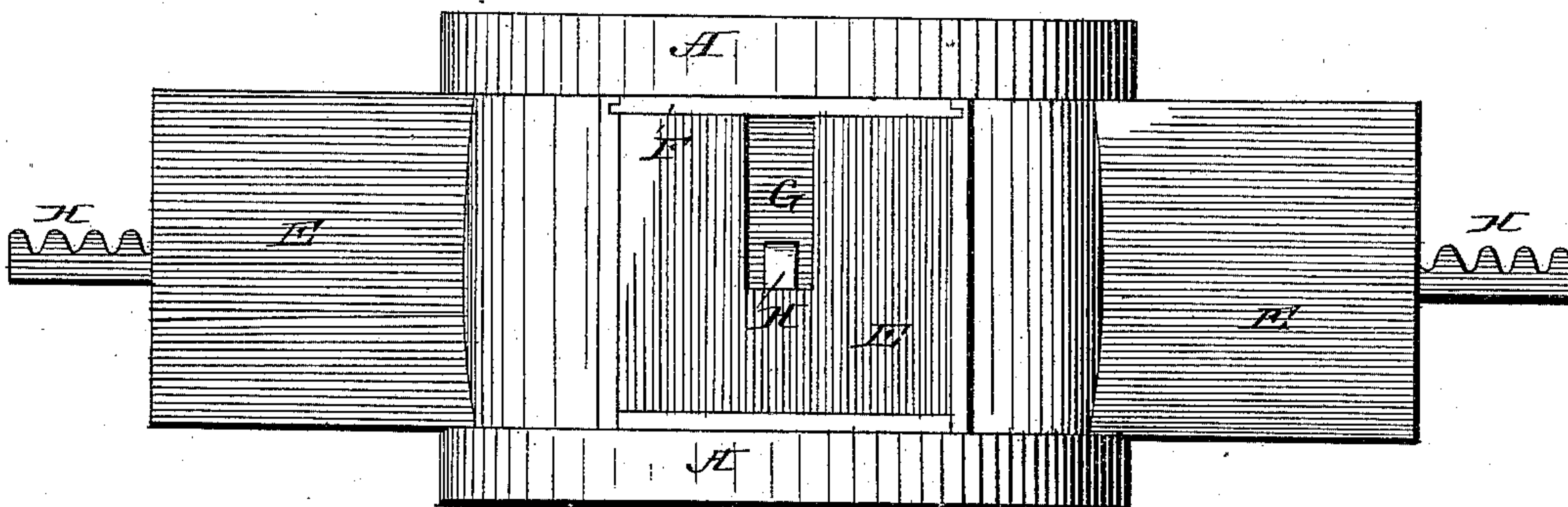
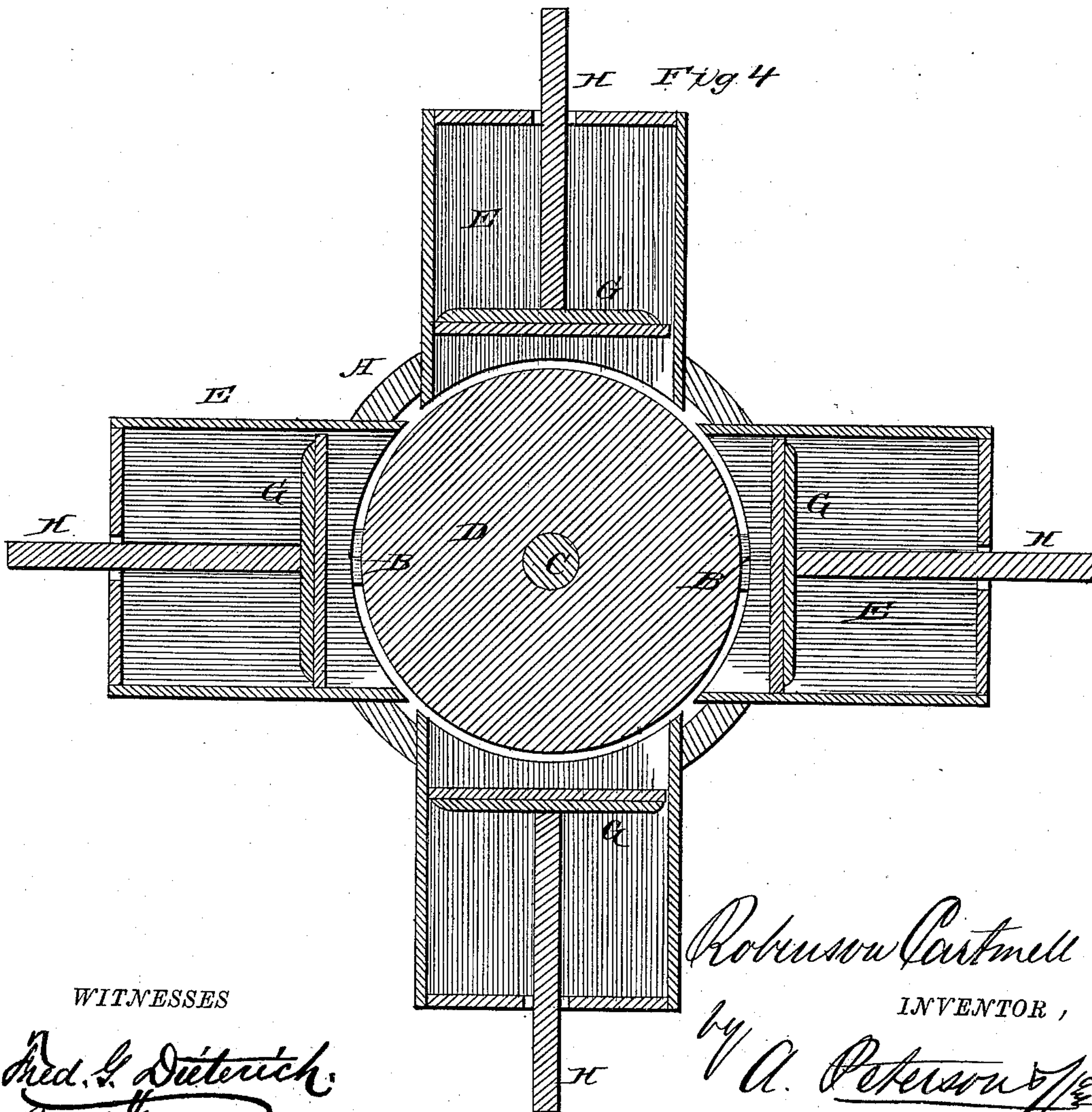


Fig. 4.



WITNESSES

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Attorneys

UNITED STATES PATENT OFFICE.

ROBINSON CARTMELL, OF BELLOWS FALLS, VERMONT, ASSIGNOR OF ONE-FOURTH TO ALBERT H. FISHER, OF SAME PLACE.

WOOD-PULP MACHINE.

SPECIFICATION forming part of Letters Patent No. 257,436, dated May 2, 1882.

Application filed January 11, 1882. (No model.)

To all whom it may concern:

Be it known that I, ROBINSON CARTMELL, of Bellows Falls, in the county of Windham and State of Vermont, have invented certain
5 new and useful Improvements in Wood-Pulp Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to
10 make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a plan view, Fig. 2 is a vertical sectional view, Fig. 3 is a side view, and Fig.
15 4 is a horizontal sectional view, of my improved machine for converting wood into paper-pulp.

Corresponding parts in the several figures are denoted by like letters of reference.

20 This invention relates to pulp-grinders, or machines for converting wood into paper-pulp; and it consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed
25 out in the claim.

In the drawings hereto annexed, A represents the cylindrical casing of my improved pulp-grinder, which is provided with transverse bearings B for a vertical shaft or stem,
30 C, carrying the grinding cylinder or wheel D. The rim of the latter is convex in cross-section, as clearly shown in the drawings, for purposes to be hereinafter set forth.

The main casing A is provided with radiating chutes, hoppers, or boxes E, four in number, more or less, and provided with sliding covers F and followers G, having toothed
35 stems or racks H projecting through the ends of said boxes. Suitable mechanism is provided for feeding the said followers simultaneously and evenly toward the grinding-wheel.
40

The latter is made preferably of cast-iron, and is coated with emery or other suitable grinding substance.

In operation the blocks or logs to be ground
45 are placed in the boxes or hoppers and fed by the followers toward the grinding wheel or disk, by which they are macerated and ground into a suitable paste or pulp for the manufacture of paper.
50

I desire to call especial attention to the peculiar formation or construction of the rim of the grinding wheel or disk, which, being convex, grinds the wooden blocks in a double-concave or scoop form, thus breaking or macerating all the fibers, and consequently enabling
55 the pulp to be utilized for finer grades of paper than has heretofore been possible, and causing a great saving in wood and pulp.

Any suitable power may be utilized for operating my improved pulp-grinder, and for
60 feeding or operating the followers any desired mechanism may be employed.

Having thus described my invention, I claim and desire to secure by Letters Patent of the
65 United States—

As an improvement in machines for converting wood into paper-pulp, the cylindrical casing having radiating boxes or hoppers, provided with sliding covers and suitably-operated followers, in combination with the
70 grinding-wheel having a convex rim and suitable operating mechanism, as described, for the purpose set forth.

In testimony that I claim the foregoing as
75 my own I have hereto affixed my signature in presence of two witnesses.

ROBINSON CARTMELL.

Witnesses:

LAFAYETTE ROYCE,
OSCAR D. GUEY.