G. BLYTHE. CHAIN PUMP.

No. 181,401.

Patented Aug. 22, 1876.

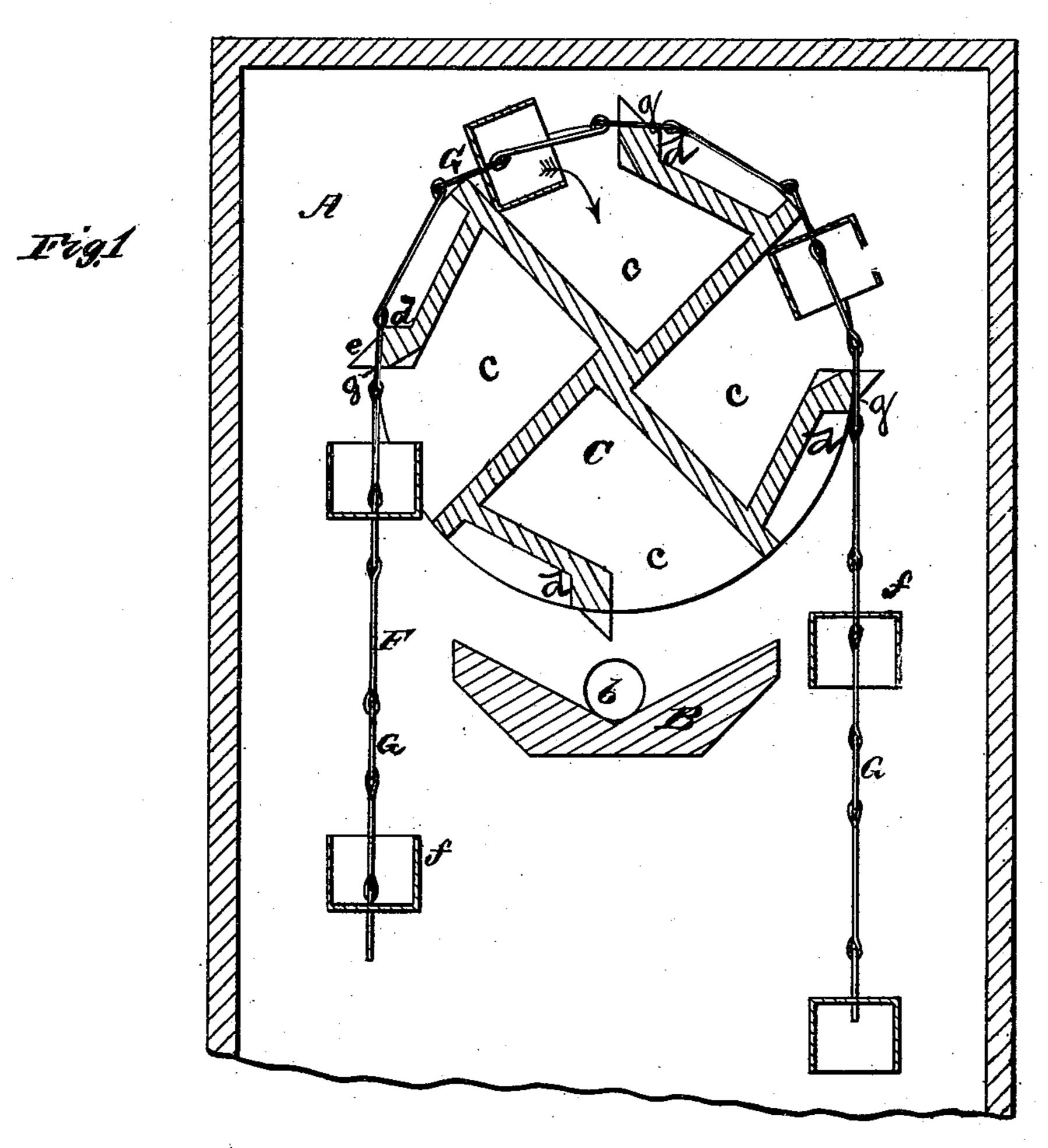
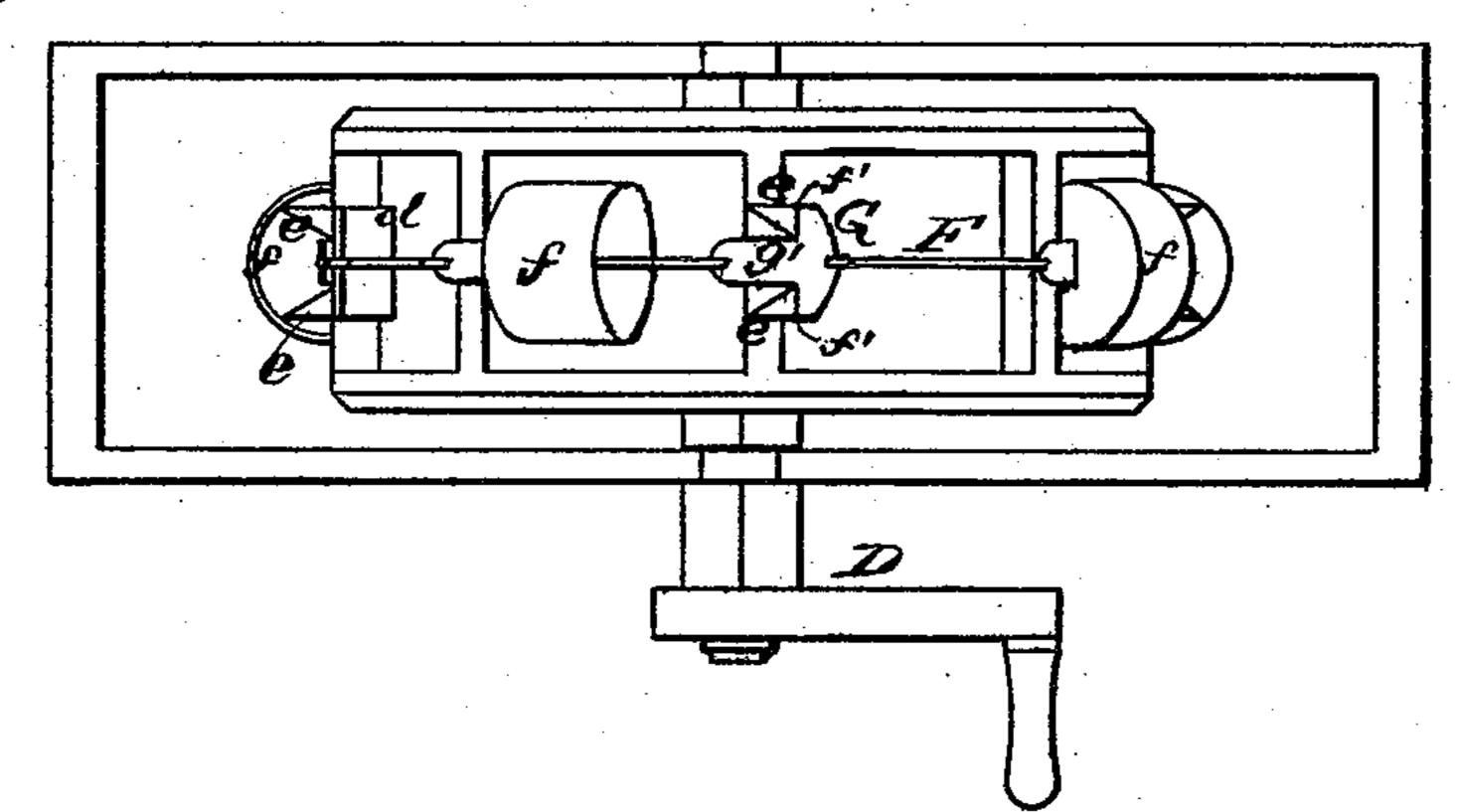


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

GEORGE BLYTHE, OF CHILLICOTHE, MISSOURI.

IMPROVEMENT IN CHAIN-PUMPS.

Specification forming part of Letters Patent No. 181,401, dated August 22, 1876; application filed May 27, 1876.

To all whom it may concern:

Be it known that I, GEORGE BLYTHE, of State of Missouri, have invented a new and i valuable Improvement in Chain Pumps; and full, clear, and exact description of the conand figures of reference marked thereon.

sists in the peculiar construction of a cellular | reaches the lowest point of its revolution. discharging-wheel, and in the means employed | for attaching thereto the chain which carries by Letters Patent, is the bucket, as hereinafter particularly set forth and claimed.

In the accompanying drawings, A designates the frame of the pump, within which is fixed the V-shaped receiver B, that discharges the raised water through a tube, b. Within and near the top of the frame A is journaled a wheel, C, which is operated by a crank, D, and which carries a chain, F, and buckets ff. The periphery of wheel C is provided with cells c c, which resemble somewhat the shape and arrangement of cells or buckets of an overshot-wheel. The periphery of wheel C is also provided with rigidly-attached blocks d, as shown in Fig. 1 of the drawing, which

are recessed in the middle so as to form guides e e. The blocks of these guides e e are slightly Chillicothe, in the county of Livingston and inotched at f'f'. The chain F is provided at suitable intervals with T-shaped plates G. The shank g of each one of said plates G is I do hereby declare that the following is a ladapted to lie between the guides e e on wheel C, and the cross-pieces g' g' of said T-shaped struction and operation of the same, reference; plates G are adapted to catch into notches f'being had to the annexed drawings, making f' on the backs of guides e e. By these dea part of this specification, and to the letters $\frac{1}{2}$ vices the dipping-buckets f are kept always in a proper position. The water is regularly Figure 1 of the drawing is a representation | poured out of the buckets f f into the cells cof a vertical central section of my chain- c, as each one of said buckets, successively, pump, and Fig. 2 is a plan view of the same. I reach the highest point of its revolution, and This invention relates to chain - pumps for i the water is discharged from the cells c c into raising and discharging liquids; and it con- the hopper B as each one of said cells c c

What I claim as new, and desire to secure

1. Wheel C, provided with cells c c and guides e e, which are notched at f' f', substantially as and for the purpose set forth.

2. Wheel C, provided with cells c c, and notched guides e e, in combination with bucket-chain F, provided with T-shaped plates G, as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

GEORGE BLYTHE.

Witnesses: JAS. W. MABURY, BARON T. DALY.