

*A. E. Crosby*  
*Rag Engine.*

*N<sup>o</sup> 85,513. Patented Jan. 5, 1869.*

Fig. 1.

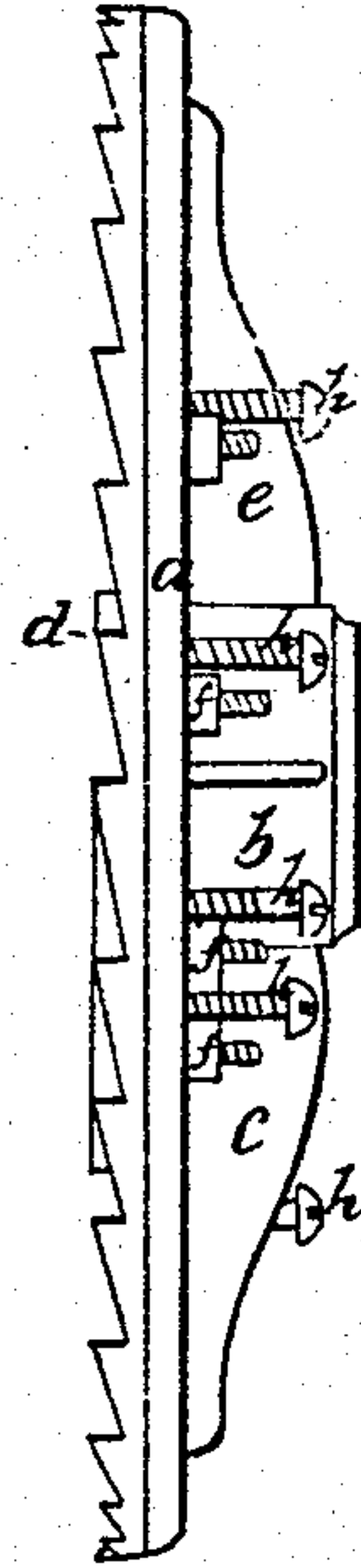
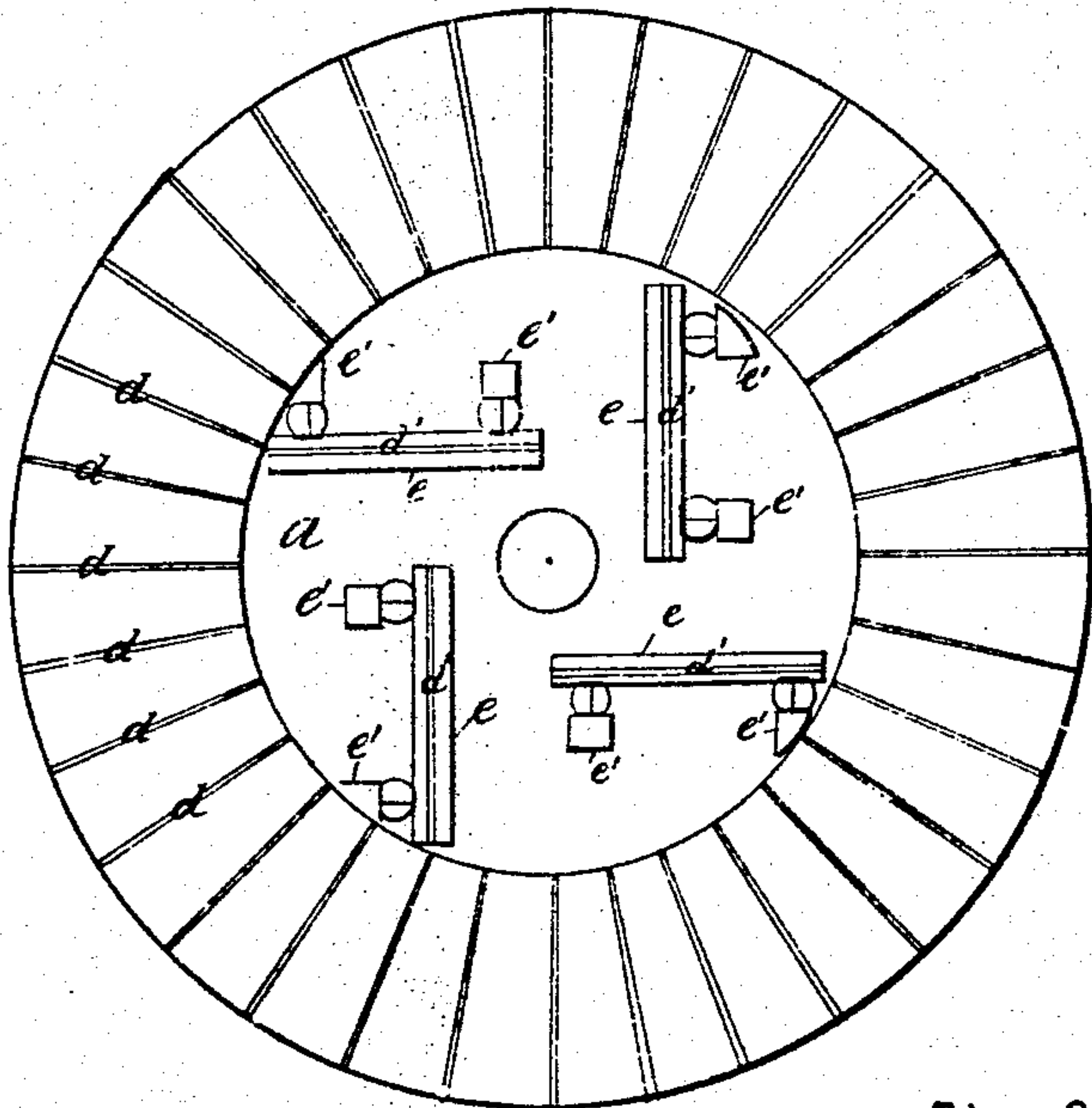
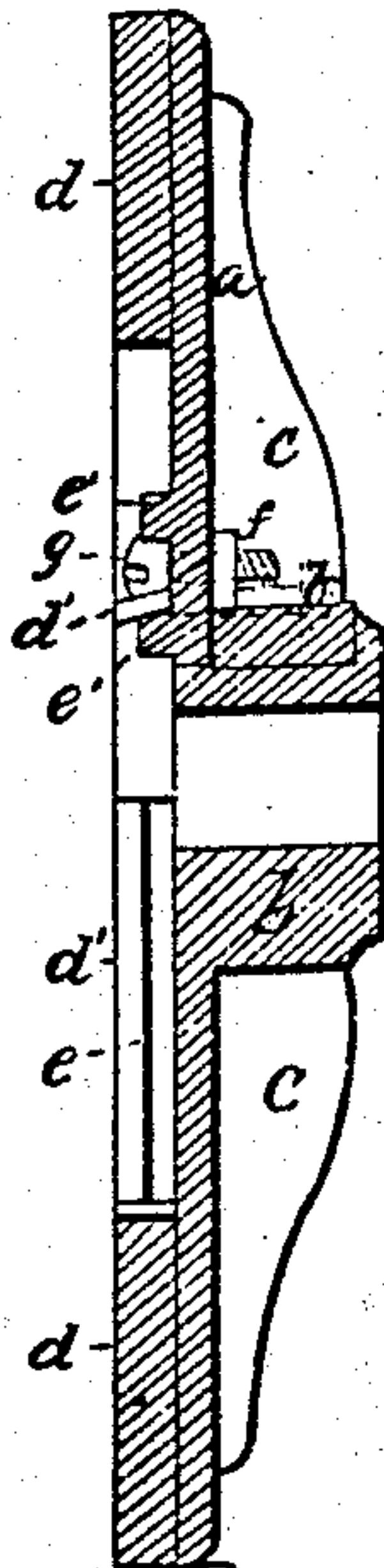
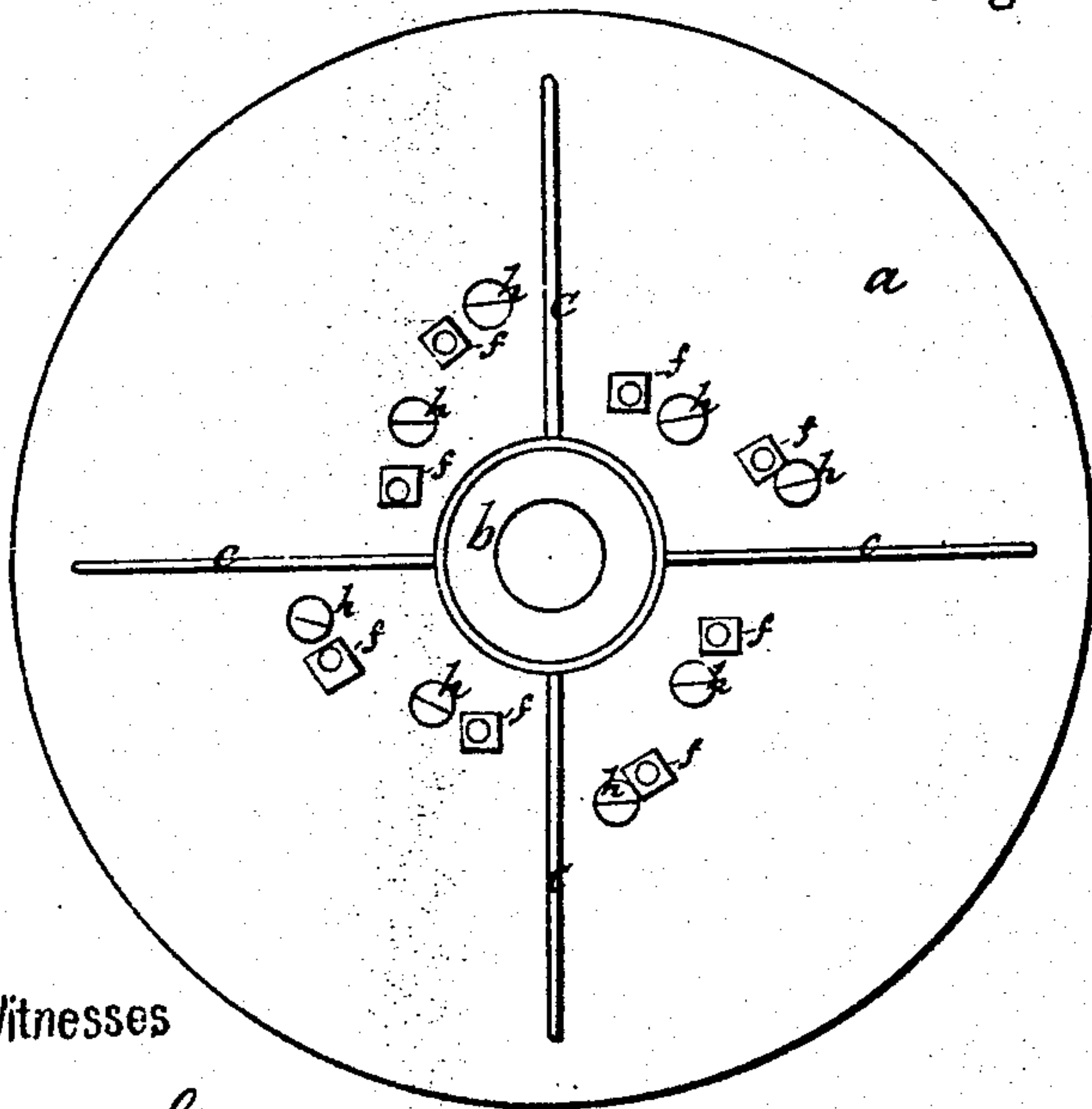


Fig. 2.



Witnesses

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ADARIO E. CROSBY, OF HARTFORD, CONNECTICUT.

Letters Patent No. 85,513, dated January 5, 1869.

IMPROVED RAG-CUTTING 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, ADARIO E. CROSBY, of Hartford, county of Hartford, and State of Connecticut, have invented certain new and useful Improved in Rag-Cutting Machine; and to enable others skilled in the art to make and use the same, I will proceed to describe its construction and operation, by referring to the drawings, in which the same letters indicate like parts in each of the figures.

The nature of this invention consists in arranging ledger-blades near the centre of a horizontal surface-wheel plate, and in or nearly in parallel lines with a right-angle line drawn through the centre of the wheel's axis.

It also consists in providing bosses and fastening-screws, by means of which the blades are secured in place, and their cutting-edges adjusted to the stationary blade in the stock or frame-work.

In the accompanying drawings—

Figure 1 is a face-side and edge view of the cutter-wheel.

Figure 2 is a back-side and edge view of the same.

*a* is the wheel-plate.

*b* is the wheel-hub, by which it is secured upon the shaft.

*c* are stiffening or supporting-ribs.

*d* are cutter-blades, secured in the outer edge or surface of the wheel in the ordinary way, and in diverging lines from the centre of the wheel's axis.

*e* are ledger or cutter-blades, arranged near the centre of a disk, and in or nearly in a parallel line with

a line drawn through the centre of the wheel's axis, and nearly at right angles with each other.

*e* are bosses, against which the cutter blades *d* take their bearing.

*f* are bosses, which forms a support for the bolts or keys *g*, for gripping or holding the cutter-blades firmly against the bosses *e*.

These bolts or keys *g* are tightened by nuts *h*.

The blades are adjusted to their relative position with the stationary cutter-blade by means of set-screws *h*, which are arranged in the plate *a*, the ends of which bear against the back edge of the knives *d*, for the purpose of accurately adjusting the cutting-edge to the stationary cutters firmly fixed in the stock or frame-work of the machine.

The object of this invention is to first cut the rags into small pieces, by means of the centre cutters *d*, after which the pieces find their way outward, and are finely cut or ground between the blades *d* and a corresponding stationary cutting-surface.

I believe I have thus shown the nature and construction of this invention, so as to enable others skilled, to make and use the same therefrom.

What I claim, therefore, and desire to secure by Letters Patent, is—

The combination of the adjustable ledger-blades *e* with the fixed blades *d* and wheel-plate *a*, substantially as and for the purpose described.

Witnesses:

ADARIO E. CROSBY.

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