

J. M. Jay,

Egg-Beater,

Nº 27,054.

Patented Feb. 7, 1860.

Fig. 1.

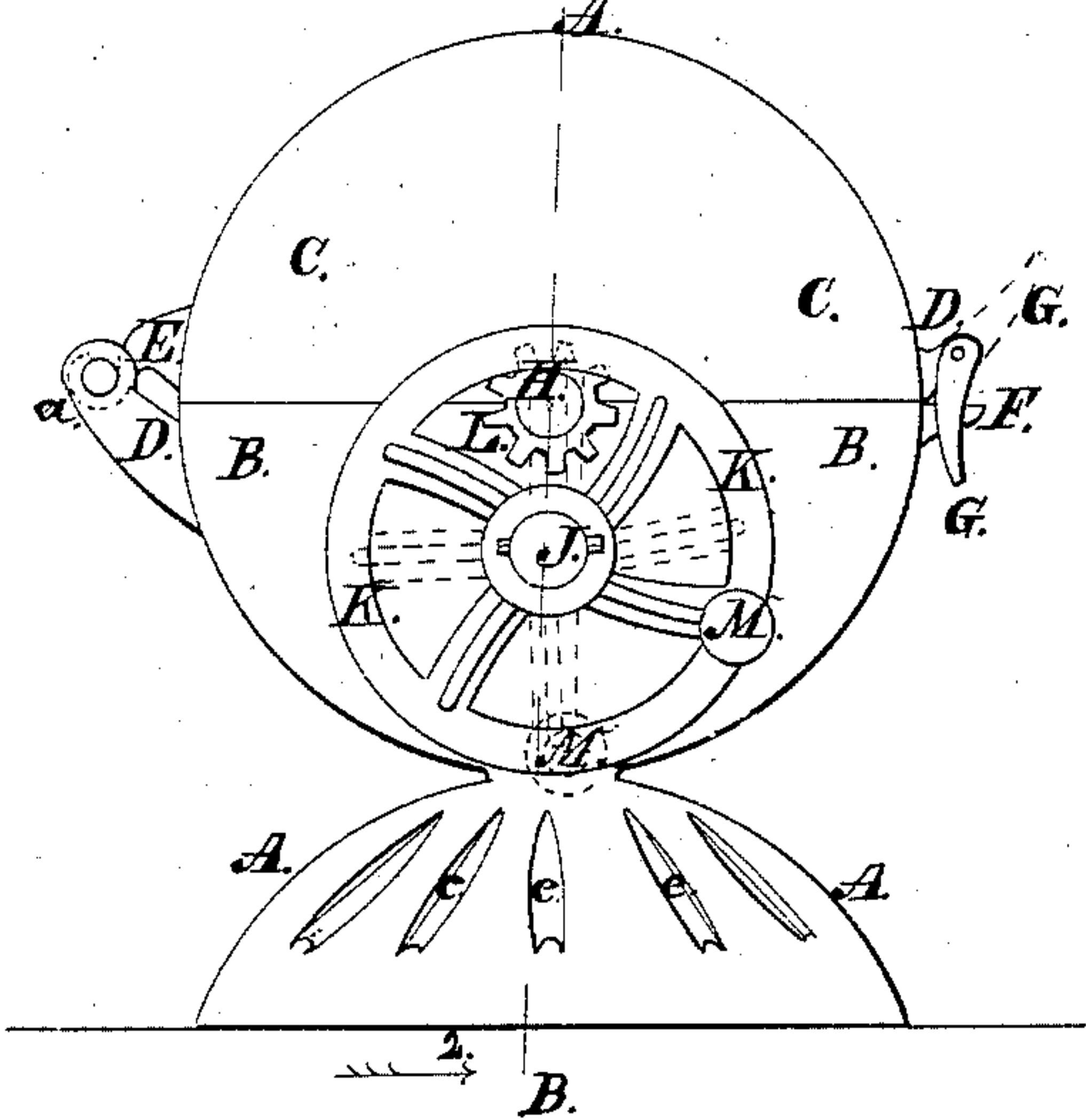


Fig. 3.

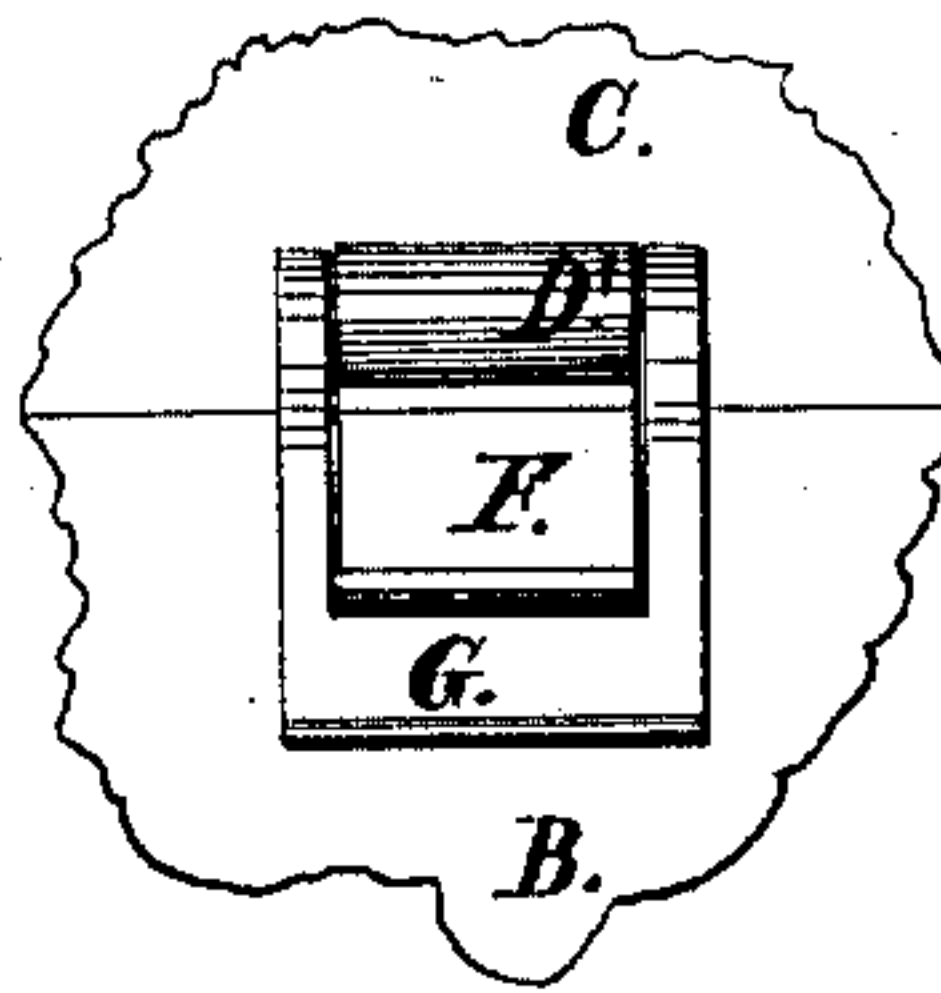


Fig. 5.

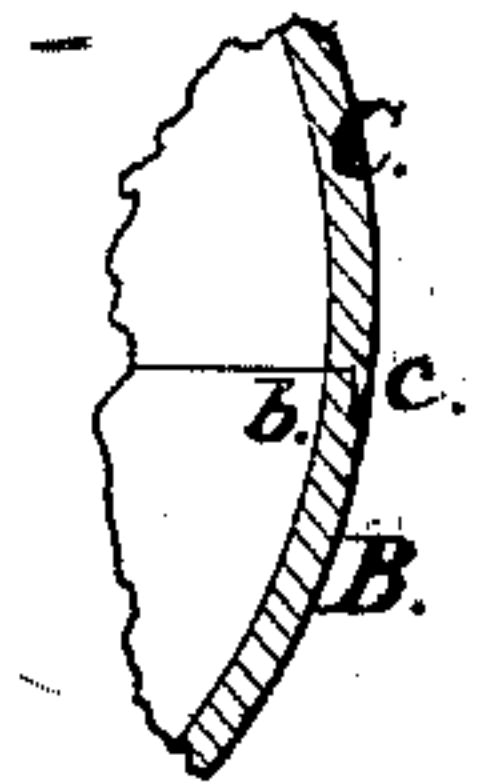


Fig. 2.

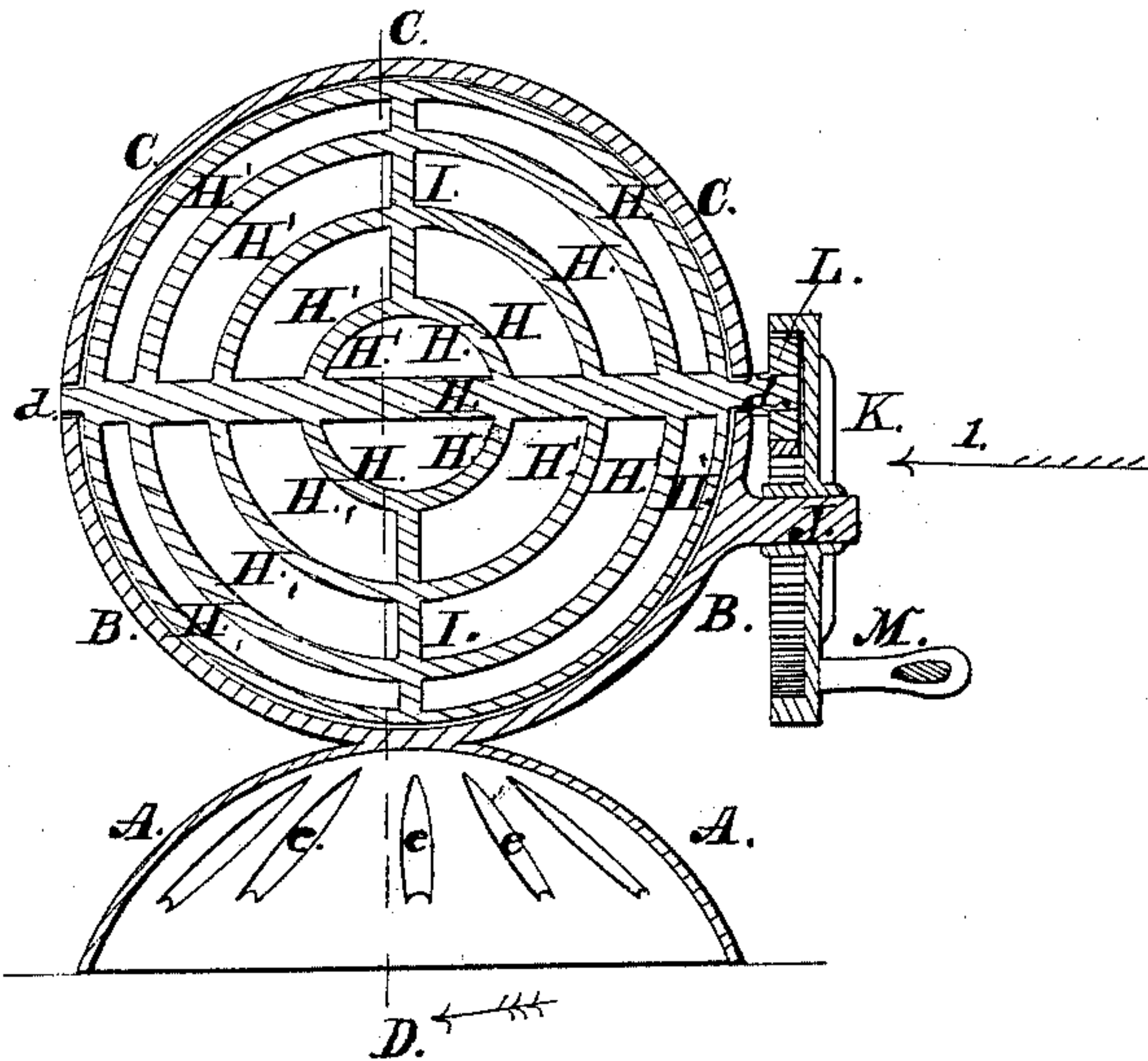
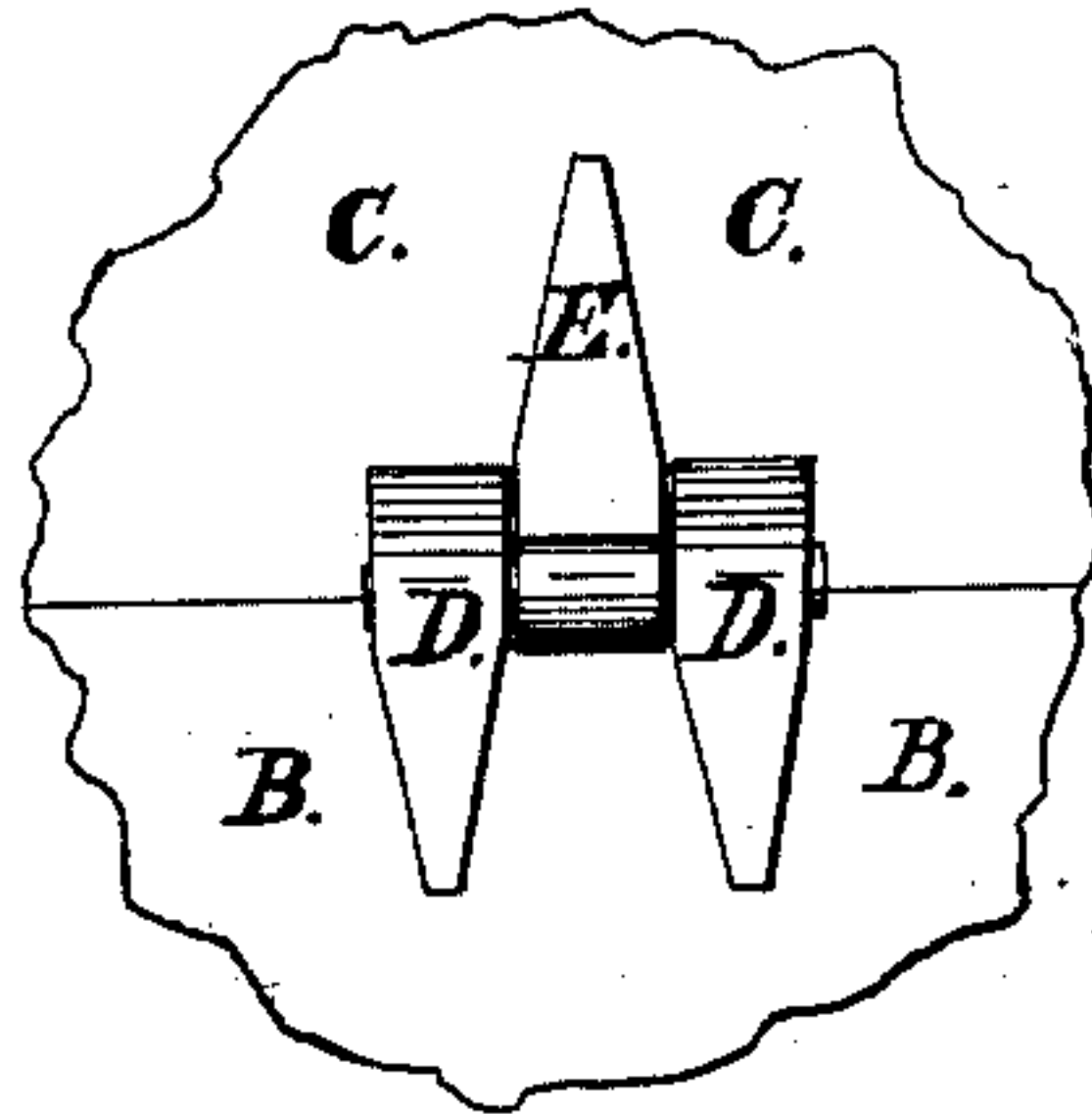


Fig. 4.



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Fig. 6.

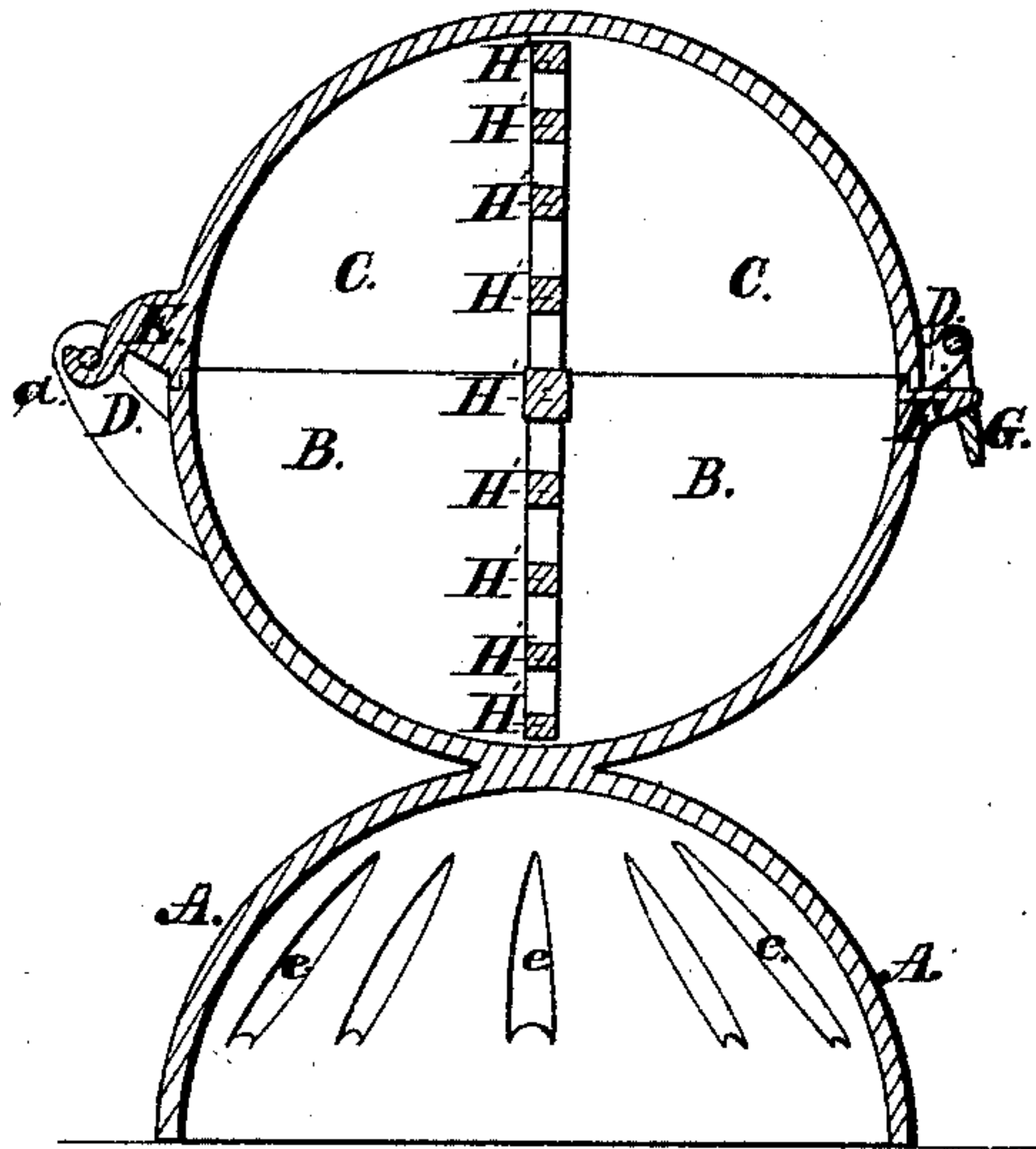
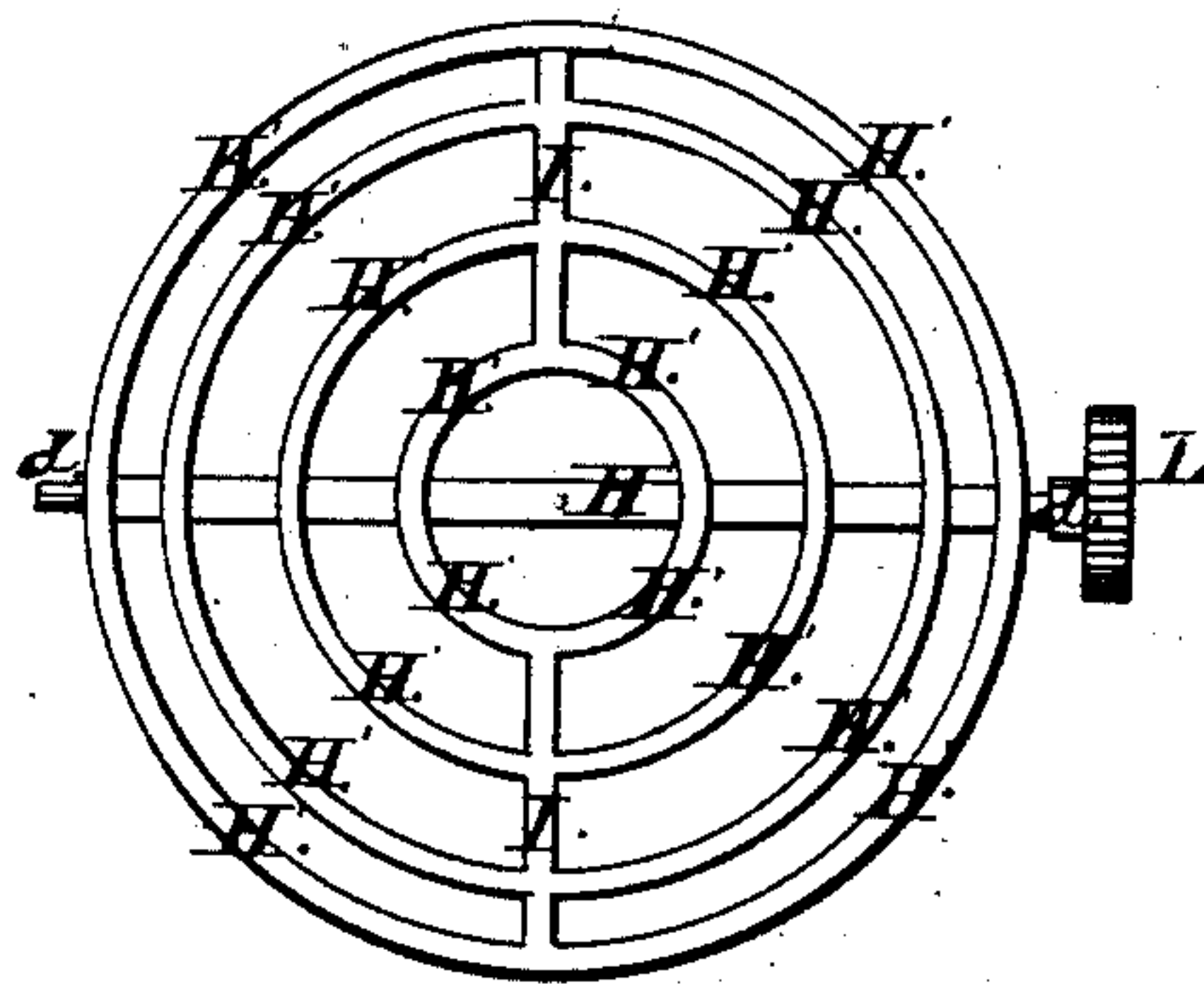


Fig. 7.



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UNITED STATES PATENT OFFICE.

JAMES M. JAY, OF CANTON, OHIO, ASSIGNOR TO HIMSELF AND JOHN DANNER, OF SAME PLACE.

EGG-BEATER.

Specification of Letters Patent No. 27,054, dated February 7, 1860.

To all whom it may concern:

Be it known that I, JAMES M. JAY, of Canton, in the county of Stark, in the State of Ohio, have invented certain new and useful Improvements in Egg-Beaters, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming a part of this specification, in which—

10 Figure 1, represents a side view of the case of the beater together with its stand and gearing, looking in the direction of arrow 1, Fig. 2. Fig. 2, represents a section on line A B, Fig. 1, wheel K and handle M being in the position shown in red lines looking in the direction of arrow 2, Fig. 1. Figs. 3, and 4, represent views of the hinge and catch by which the top part is held down, the parts being represented on an enlarged scale and in broken sections. Fig. 5, represents a detached section or part of the bottom B, and cover C, showing the manner in which they break joints. Fig. 6, represents a vertical section through the beater, at right angles to the line A B, Fig. 1, the section being a little to one side of the center as shown by line C D, Fig. 2. Fig. 7, represents the beater shaft H, with its gear L and dashes or beaters H'.

30 In the accompanying drawings A, is the stand, upon the top of which is secured the lower half of the case B, which is in the form of a hollow half globe or sphere. The cap or top C, is also made in the form of a hollow half globe or sphere, so that when both of the parts B, and C, are in the position shown in Fig. 1, they form a hollow globe. Lugs D, are cast or otherwise fastened to the upper part of one side of B while on the other, and nearly opposite thereto, a lip F, is similarly fastened. A pivot *a*, is passed through the ends of the lugs D, and under which the hook E, cast upon or otherwise fastened to the lower side of the cap or cover C, is passed as shown in dotted lines Fig. 1, when the cap or cover C, is placed on top of the bottom part B. On the opposite side of the cover C, is cast or otherwise fastened a projection D', and to which is hinged a swinging catch piece G, for the purpose of holding the cover or top C, securely down, and which is done by turning down the catch piece G, over the inclined lip F, on the bottom half B, as

shown in black lines Fig. 1. When the cover or top C, is to be removed the piece G, is turned up as shown in red lines Fig. 1, when the cover or cap piece C, can be turned back and entirely removed by simply unhooking E, from the pivot *a*, between the lugs D, on the opposite side of the bottom part B. The parts B, and C, fit close together, the part B, being turned off as shown at *b*, Fig. 5, while the inner surface of the part C, is turned off as shown at *c*, same figure. By this arrangement of the parts, they break joints and consequently are perfectly tight.

The device for beating the eggs is constructed and operated as follows:—A shaft H, has its bearings or journals *d, d*, in the upper edge of the bottom B, as shown in section Fig. 2, the edges of the cap or cover C, being cut out so as to fit over the upper part of the bearings *d, d*. To the shaft H, are attached a series of concentric rings, dashes or beaters H', the outer ring or beater being close to the inner surfaces of B, and C. The shaft H, is revolved by means of the handle M, attached to the wheel K, which turns on a stud or bearing J, attached to the bottom B, whereby the outer beater is made to sweep the bottom at each revolution, so that no part of the egg can escape being well and properly beaten.

In my egg beater the air which occupies the upper part of the hollow bottom B, together with that which fills the cover or cap C, is so closely confined that it can not escape during the operation of beating the eggs, consequently it is carried down and mixed thoroughly with the eggs by the rings or dashes H', while the eggs are carried up and through the air in the cap or case C, so that a perfect mixture of the air and eggs is effected, and which it has been found, is important in order to render the use of the eggs perfectly safe in the various forms in which they are served up after being beaten. Again, it does not matter, whether one or more eggs are beaten at a time or not, since the egg descends to the center of the bottom B, where it is reached at each revolution of the beaters H', since the outer one always sweeps the bottom as it revolves.

I prefer to make or cast the parts B, and C, of composition metal, while the stand part A, is made of cast iron, and is hollow as

shown in the drawings, while at the same time to render it still lighter and more ornamental, it may have openings *e, e*. The beaters *H'*, may be strengthened by cross connections *I*, if preferred. The best way to secure the rings or beaters *H'*, to the shaft *H*, is to place the shaft in proper molds and then cast the rings around the shaft, since by this mode of construction, the outer beaters can be formed true, so as to fit the inner surfaces of the parts *B*, and *C*, without further turning or truing.

If preferred the parts *B*, and *C*, could be made of glass, and the device used to stir cream, and thus produce butter in small quantities for table use.

Having described my improved egg beater,

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

1. I claim making the case or shell of an egg beater in the form of a hollow globe or sphere, substantially as set forth.

2. I claim the combination of a circular beater or beaters with the parts *B*, and *C*, substantially as set forth.

3. I claim the combination of the parts *G*, *E*, and *D*, *F*, with the parts *B*, *C*, substantially as set forth.

In witness whereof I have hereunto signed my name.

JAMES M. JAY.

Witnesses:

DANIEL GOTSHALL,
JACOB KEPTINGER.