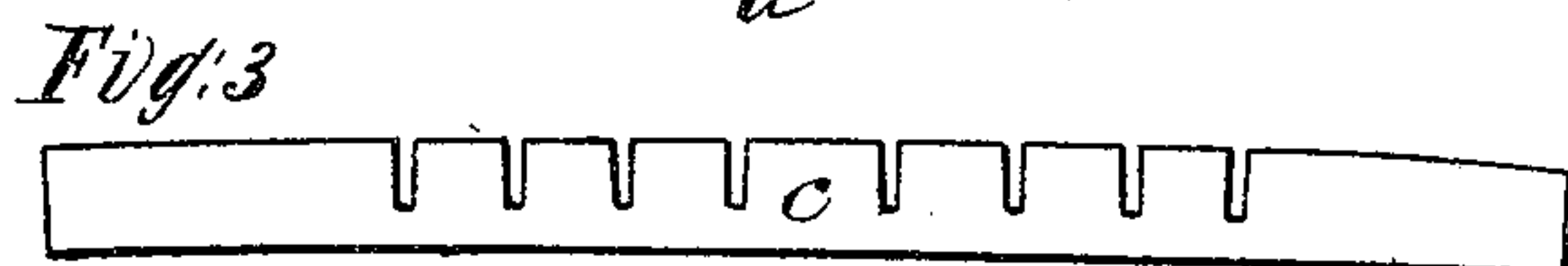
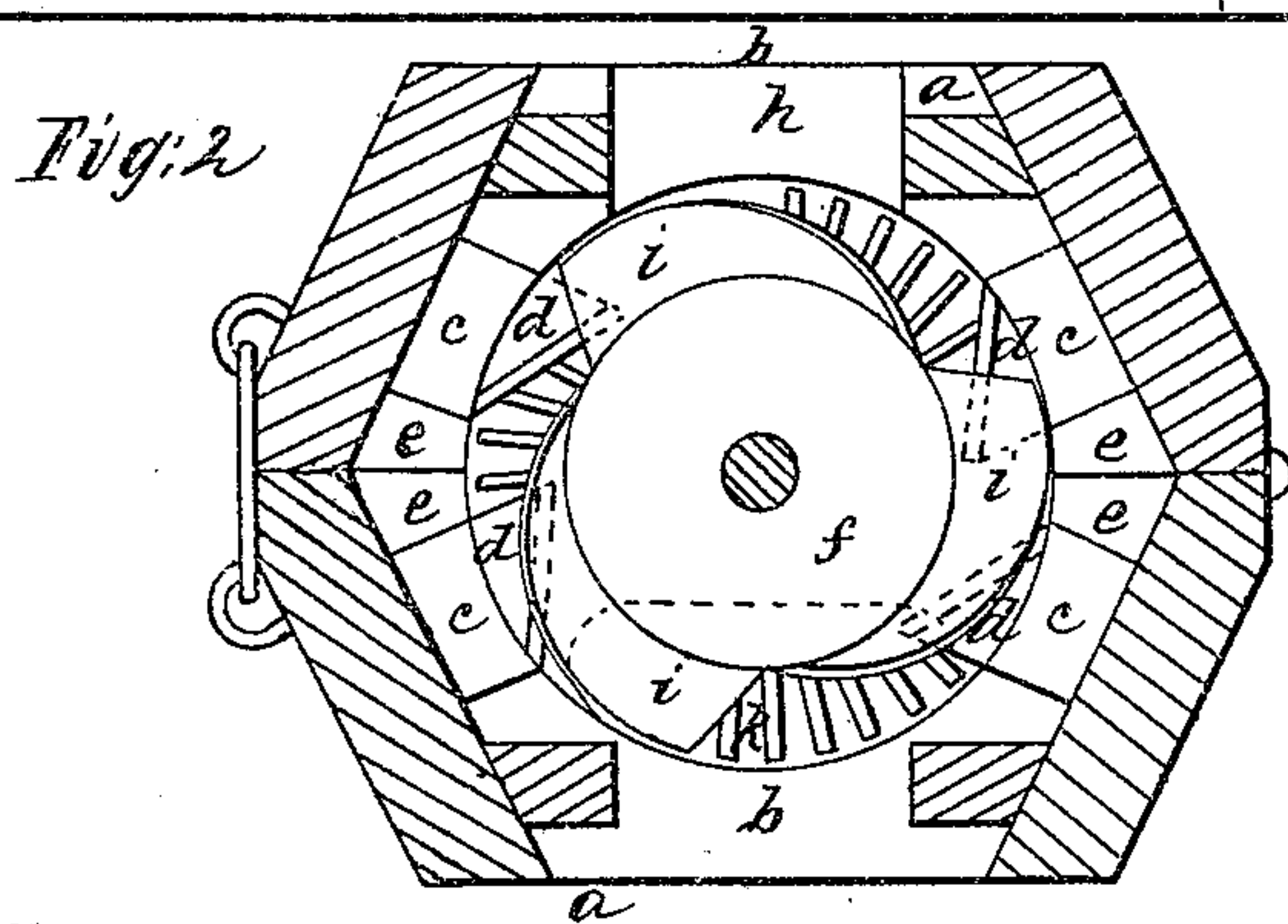
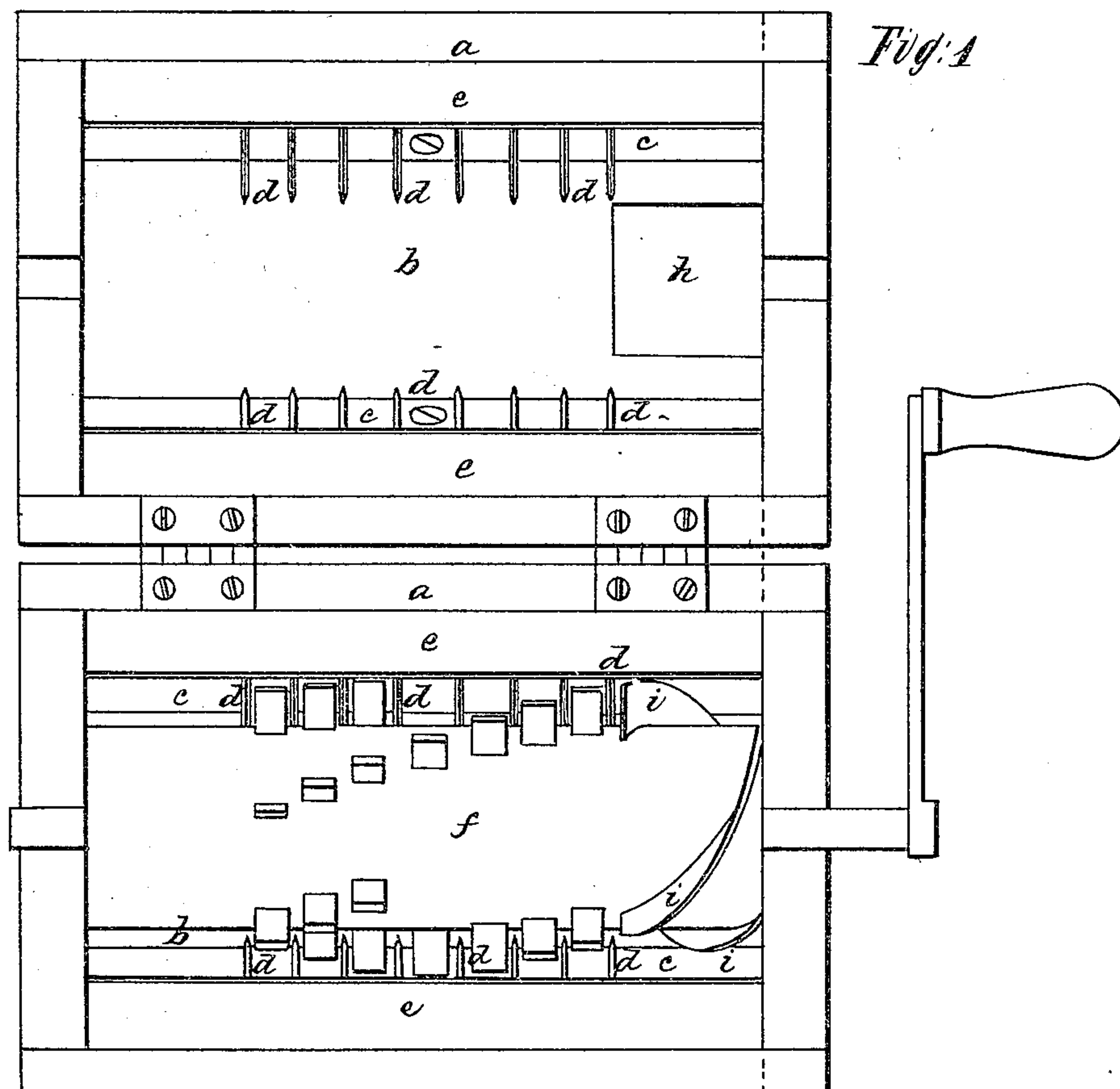


J. POTTS.  
MEAT CUTTER.

No. 9,035.

Patented June 15, 1852.



# UNITED STATES PATENT OFFICE.

JOSEPH POTTS, OF YOCUMTOWN, PENNSYLVANIA.

## IMPROVEMENT IN MEAT-CUTTERS.

Specification forming part of Letters Patent No. 9,035, dated June 15, 1852.

*To all whom it may concern:*

Be it known that I, JOSEPH POTTS, of Yocumtown, in the county of York and State of Pennsylvania, have invented a new and useful Improvement in Meat-Cutters; and I do hereby declare that the following is a full, clear, and exact description of the principle or character which distinguishes it from all other things before known and of the usual manner of making, modifying, and using the same.

My improvements consist in the mode of constructing the interior of my concave or box and the manner of setting my knives, as well as the construction and arrangement of my conducting-cylinder, by which I attain a facility of removing and sharpening the knives and securely attaching them again not heretofore known, insuring at the same time a perfect set to them in an inexpensive way.

The construction is as follows: I form a hexagonal box *a* of the proper size—say twelve inches long and nine in diameter—divided into two parts in the plane of its axis, which two parts are hinged together, so as to readily be opened, and when closed for use they are fastened by a hook or other device. The two ends have round holes through their center to form the bearing of the journals of the shaft of the conducting-cylinder, which is inclosed. A piece of wood *b* is fitted into the bottom and another into the top of the box, the inner surface of which is concave, forming the segment of a circle, say, about six inches diameter. A cross-section of this piece is shown in the drawings, Fig. 2. On each side of these pieces *b* are other pieces *c*, which fit the box, but their inner surfaces form another portion of the concave. These contain the knives for cutting the meat, and the manner of inserting and holding them is as follows: A saw-kerf is cut into each piece *c* from the concave side at the point where each knife is inserted, there being a kerf for each knife. The knives *d* are plain pieces of plate steel, a little thicker than the saw-kerf, so that when the knives are forced into the kerfs the piece *c* will be bent into a curved

form, the side on which the knives are being convex. The portion of the knives above the surface of the piece *c* is of triangular shape, as seen in the drawings, the hypotenuse being sharpened to a cutting-edge. When the piece *c* thus armed is put into its place, it rests on its two ends, and then by passing a screw through its center into the box and screwing it down the piece is brought down straight and the knives are all firmly pinched and held in place without other fastening. Above the pieces *c* are other small staves *e*, that complete the concave and secure all parts properly together. By this means it will be seen that my knives can be readily removed for sharpening and replacing, an incalculable convenience in the working of the machine. The cylinder *f* is of proper diameter, and at the end under the opening *h*, in the cover of the box where the meat is put in, it has three spiral wings *i*, that extend from the point where the first knife is inserted to the end, and beyond these three wings there are three spiral rows of broad flat teeth that nearly fill the space between the teeth and serve to carry forward the meat against the knives and toward the other end of the machine, where there is an exit-opening *k*. There are three short rows of the same kind of teeth that are placed between those first named, extending inward from the exit end, as clearly shown in the drawings. These are required as the meat is cut finer properly to carry it forward and cut it, giving of course double the number of cuts that were given at the entrance during a revolution. The knives being all alike can be shifted to any place, according to their wear.

Having thus fully described my improvements in meat-cutters, what I claim therein as new, and for which I desire to secure Letters Patent, is—

The mode of attaching the knives herein described, by which they can be taken out and replaced expeditiously.

JOSEPH POTTS.

Witnesses:

SAMUEL FORTENBAUGH, Jr.,  
ABRAHAM A. FORTENBAUGH.