

No. 702,248.

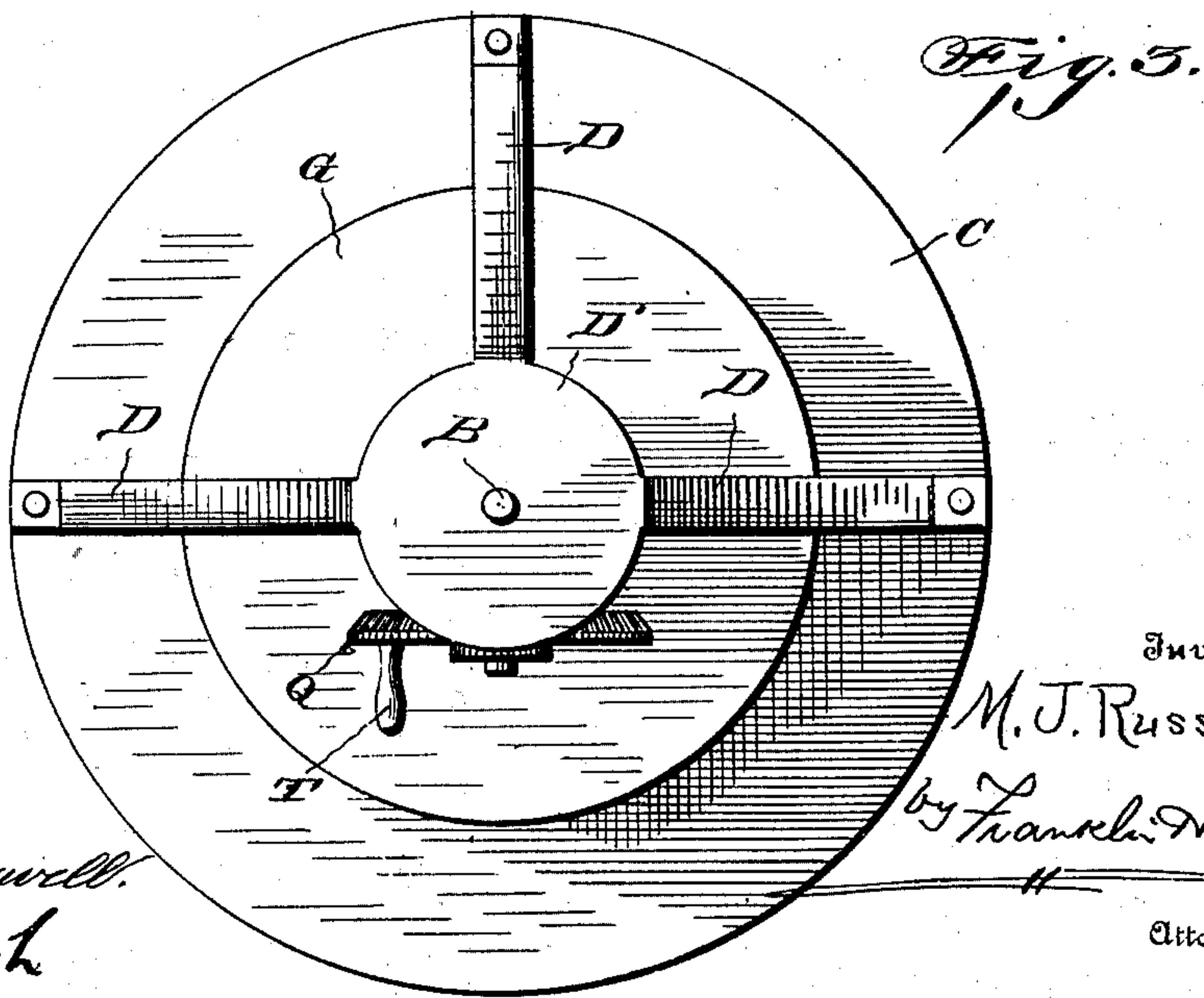
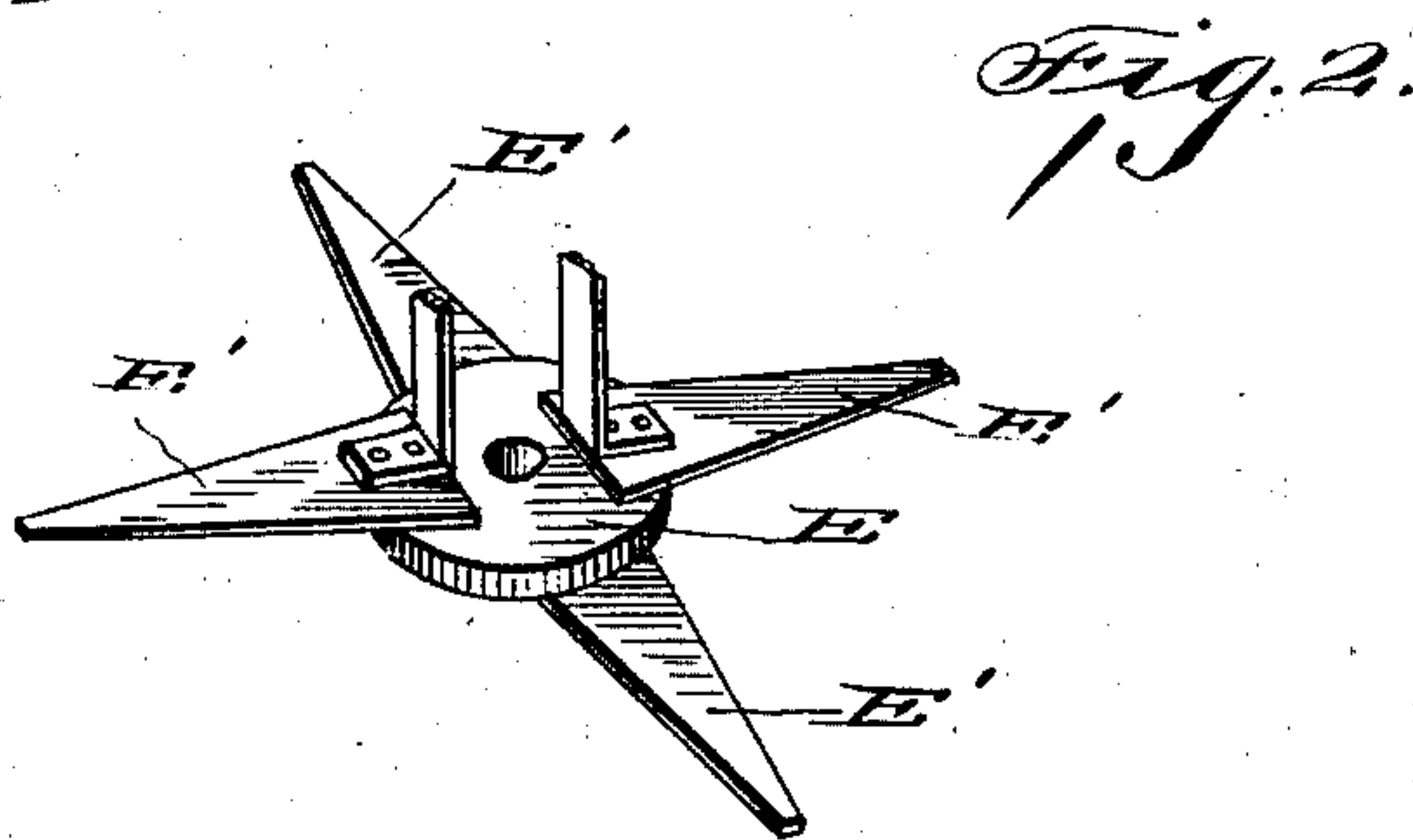
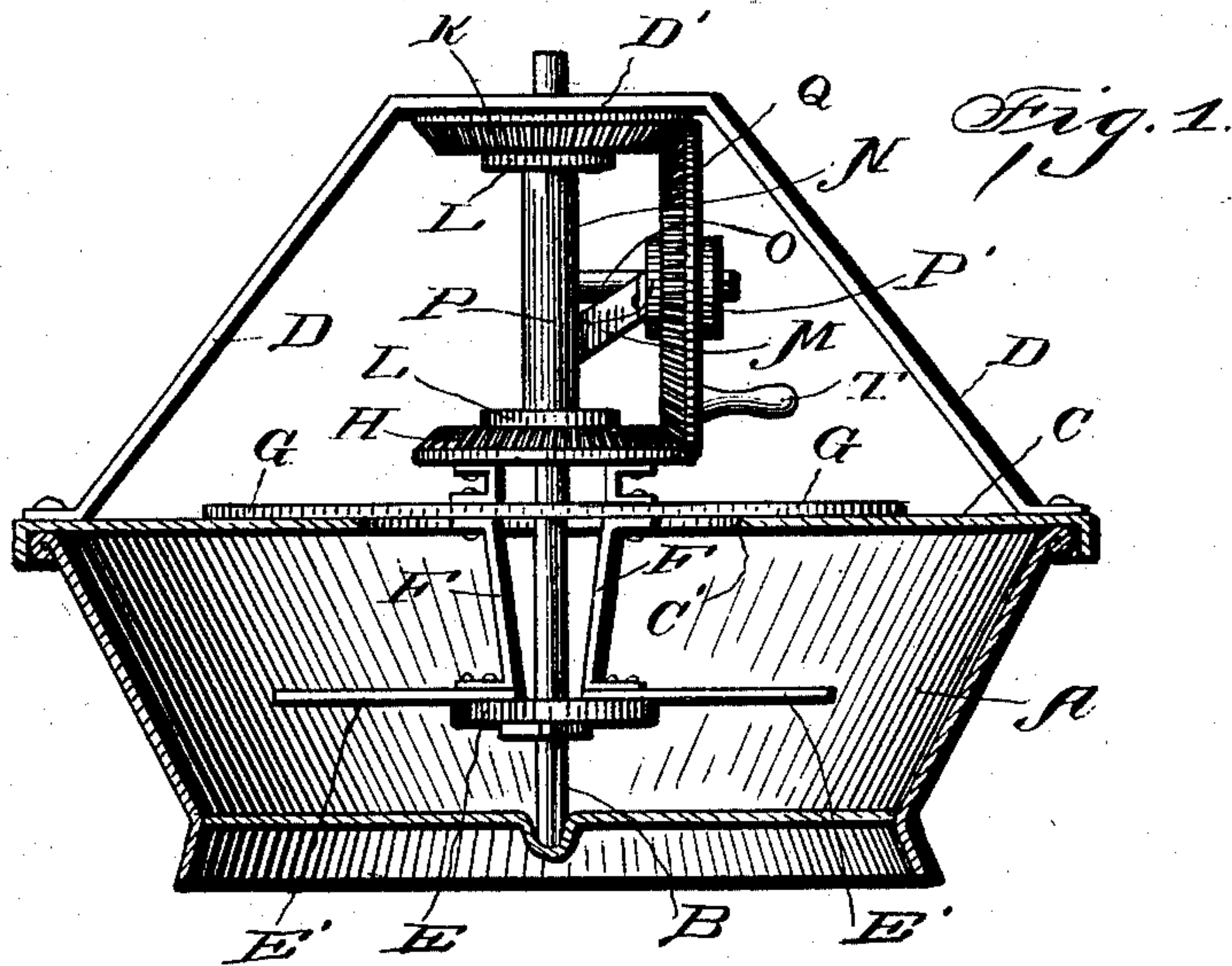
Patented June 10, 1902.

M. J. RUSSELL.

DOUGH KNEADER.

(Application filed Mar. 14, 1902.)

(No Model.)



Witnesses

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UNITED STATES PATENT OFFICE.

MARGARET J. RUSSELL, OF STAMFORD, NEW YORK.

DOUGH-KNEADER.

SPECIFICATION forming part of Letters Patent No. 702,248, dated June 10, 1902.

Application filed March 14 1902. Serial No. 98,234. (No model.)

To all whom it may concern:

Be it known that I, MARGARET J. RUSSELL, a citizen of the United States, residing at Stamford, in the county of Delaware and State of New York, have invented certain new and useful Improvements in Dough-Kneaders; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in machines for kneading dough; and it consists in the provision of means designed for attachment to a bread-pan, whereby dough may be thoroughly worked by the stirrer, which is actuated as a crank connected thereto is rotated.

The invention relates, further, to various details of construction and combination of parts, as will be hereinafter more fully described, and then specifically defined in the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this application, and in which drawings similar letters of reference indicate like parts in the several views, in which—

Figure 1 is a vertical sectional view through a bread-pan and my attachment applied thereto. Fig. 2 is a detail view showing the stirrer, and Fig. 3 is a top plan view.

Reference now being had to the details of the drawings by letter, A designates a bread-pan which has preferably a socket in its bottom centrally located, in which socket the lower end of the shaft B is adapted to have a bearing. C designates a cover for the pan, which cover has an aperture C' in its center. Supported on said cover are the straps D, of metal, which are integral with or secured to a disk D', which is centrally apertured to receive the upper end of said shaft, which has a bearing therein. Near the lower end of said shaft is journaled an apertured disk E, having secured thereto radiating points E', which are provided as stirrers, and secured to the upper surface of said disk E are straps F, the upper ends of which are fastened to the un-

der surface of the rotatable plate G, which is centrally apertured. Said straps pass through the central aperture in said plate G and are fastened to the under surface of the gear-wheel H, which is journaled to rotate about said shaft. Said gear-wheel is mounted a short distance above said plate, preferably half an inch, and in operation the gear-wheel, plate, and stirrers rotate together. The under face of said plate when adjusted in place is adapted to rest upon the upper face of the cover. A second gear-wheel K is provided which turns idly on the shaft and is kept at a fixed distance from the gear-wheel H by means of the disks L and L', which are fastened to the opposite ends of the hollow tubing N. Projecting horizontally from said tubing is an arm M at one side of a stub-shaft O, also projecting from the tubing, and at the outer end of said arm M is mounted a disk P, serving to limit the inner throw of the gear-wheel Q, which is journaled on said stub-shaft. A disk P', similar to disk P, is mounted on the outer end of said stub-shaft O to prevent the gear-wheel Q from coming off the shaft on which it has a bearing. Said gear-wheel Q has teeth about the side of its rim, which are in engagement with the teeth of said gear-wheels H and K, and a suitable turning-handle T is fastened to said wheel Q.

From the foregoing it will be noted that the attachment embodying my invention may be readily applied to an ordinary bread-pan by providing means for supporting and holding the shaft and aperturing the cover to admit the passage therethrough of the shaft and the straps secured to rotate with the gear-wheels. By turning the handle the stirrers may be rotated, whereby the dough may be thoroughly kneaded.

Having thus described my invention, what I claim to be new, and desire to secure by Letters Patent, is—

1. In combination with a pan and cover therefor, a shaft mounted in said pan in a socket in the bottom of the pan, a stirrer journaled to rotate on said shaft, a plate mounted above the cover, straps connecting said plate with said stirrer and adapted to rotate therewith, a gear-wheel rotating about said shaft and connected to said straps, and means for rotating said gear-wheel, as set forth.

2. In combination with a pan and cover, which latter is apertured, a shaft supported in said pan in a socket therein, a stirrer-disk journaled on said shaft and points fastened
5 to said disk, a rotatable plate mounted above the cover, straps connecting said plate with said stirrer, a gear-wheel journaled on the shaft and fastened to said straps, a tubing with disks fastened to its ends, mounted upon
10 said shaft, a gear-wheel journaled above said tubing, and a vertically-mounted gear-wheel

in mesh with said gear-wheel which is connected to the stirrer, and the straps connected at their ends to the edge of the cover, and radiating from a disk which is mounted on said 15 shaft, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

MARGARET J. RUSSELL.

Witnesses:

J. M. R. THOMPSON,
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