

No. 816,564.

PATENTED APR. 3, 1906.

J. VAN T. DANIELS.  
HAND GEAR VIBRATORY MASSAGING MACHINE.  
APPLICATION FILED FEB. 18, 1904.

Fig. 1.

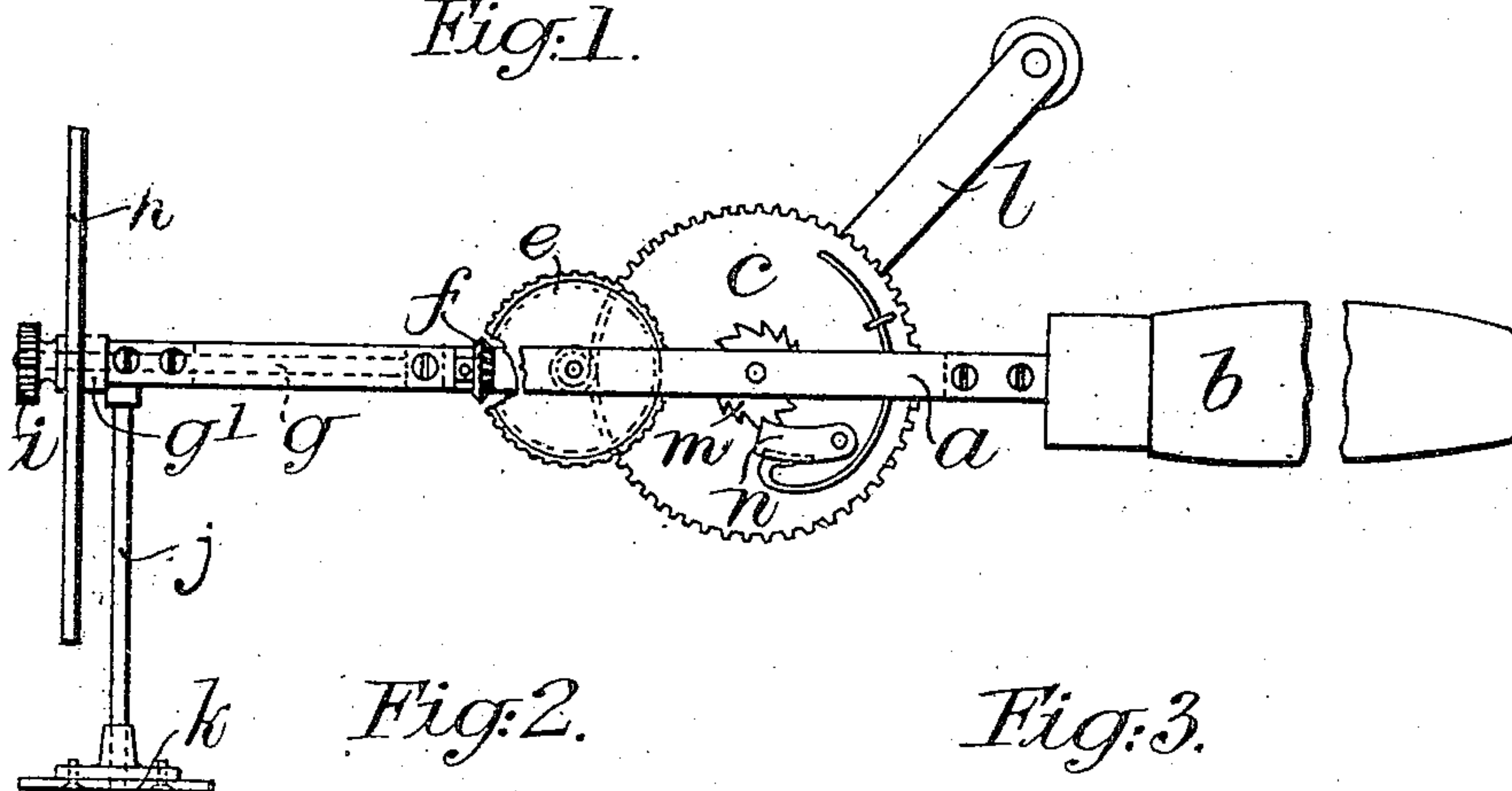


Fig. 2.

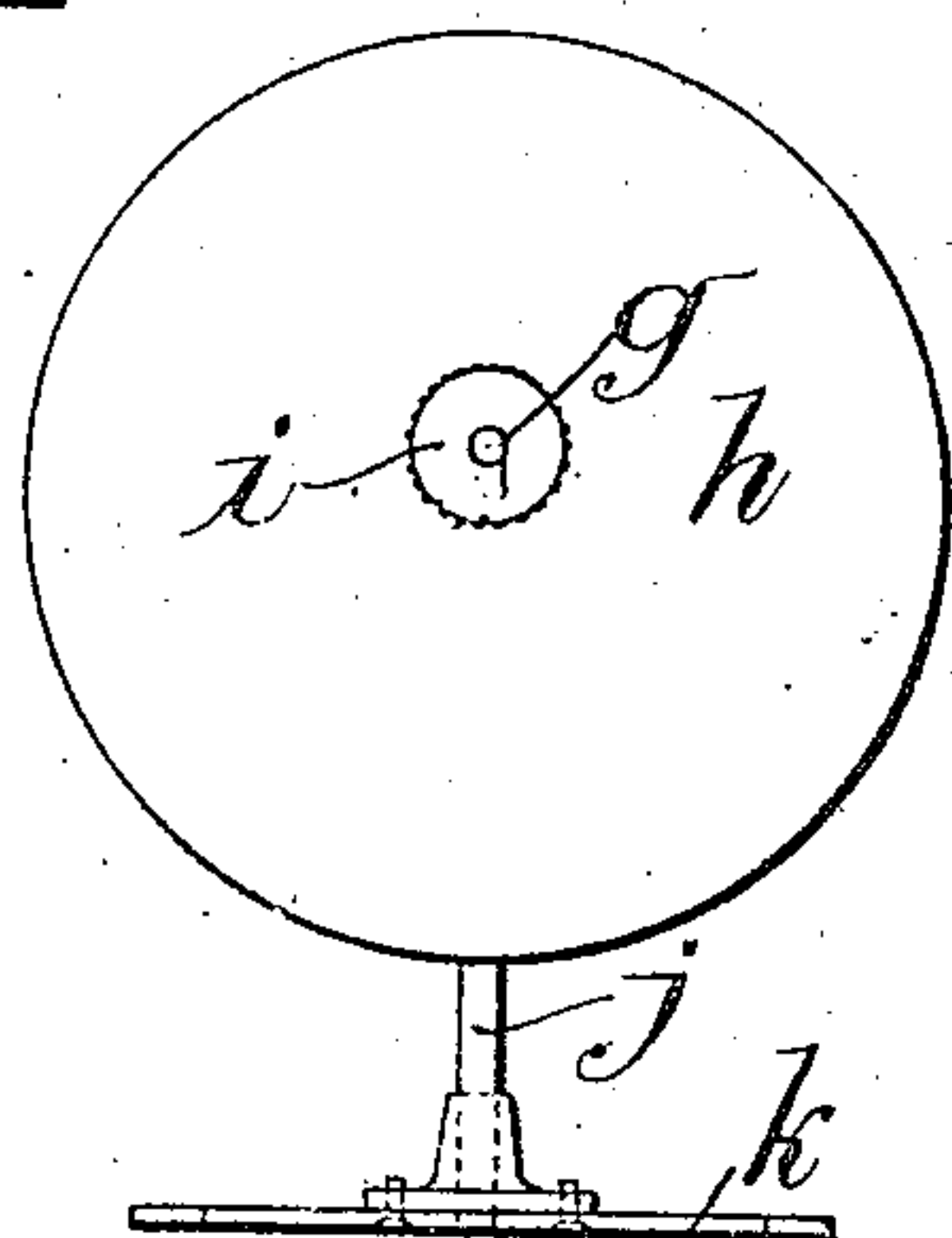


Fig. 3.

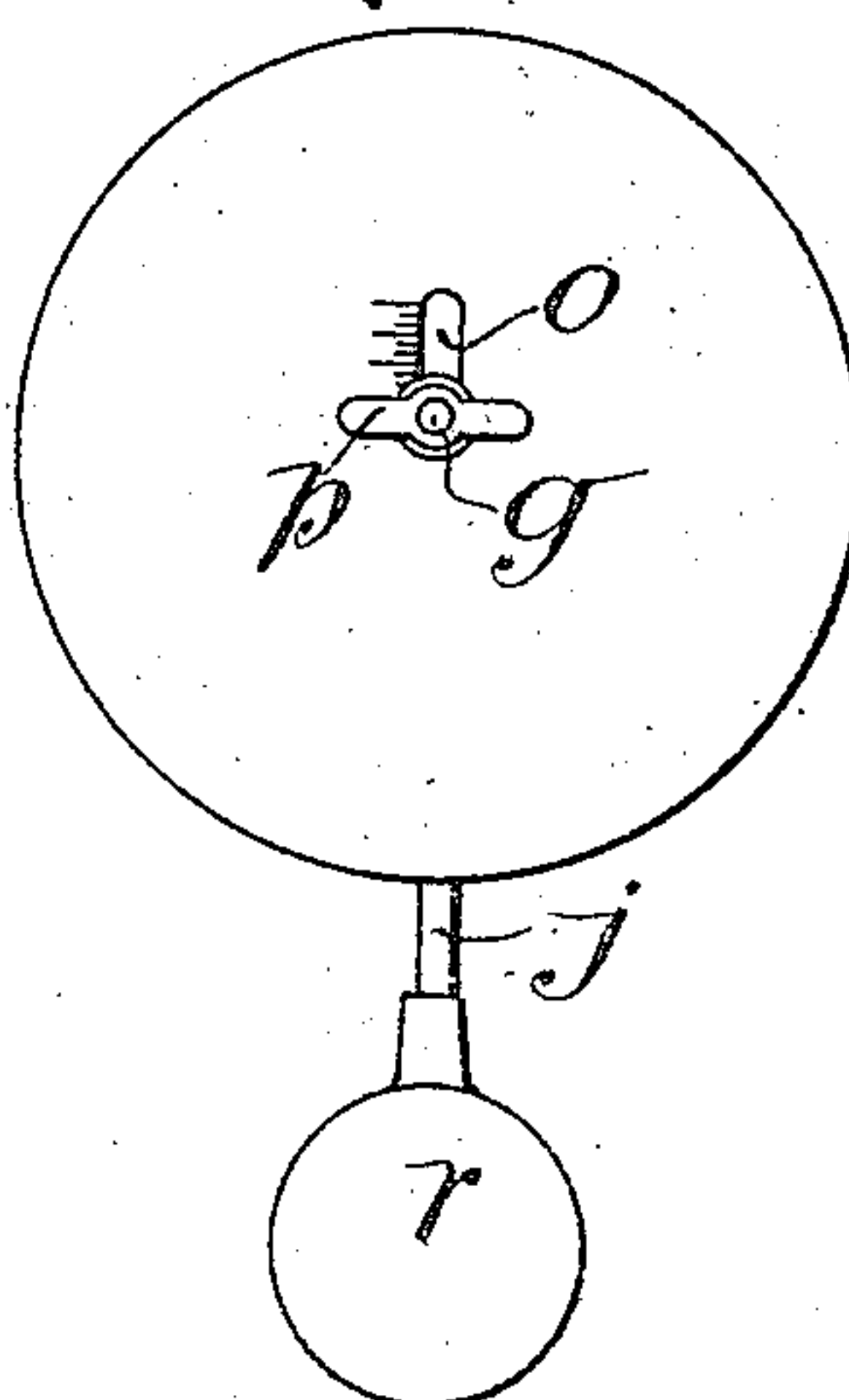
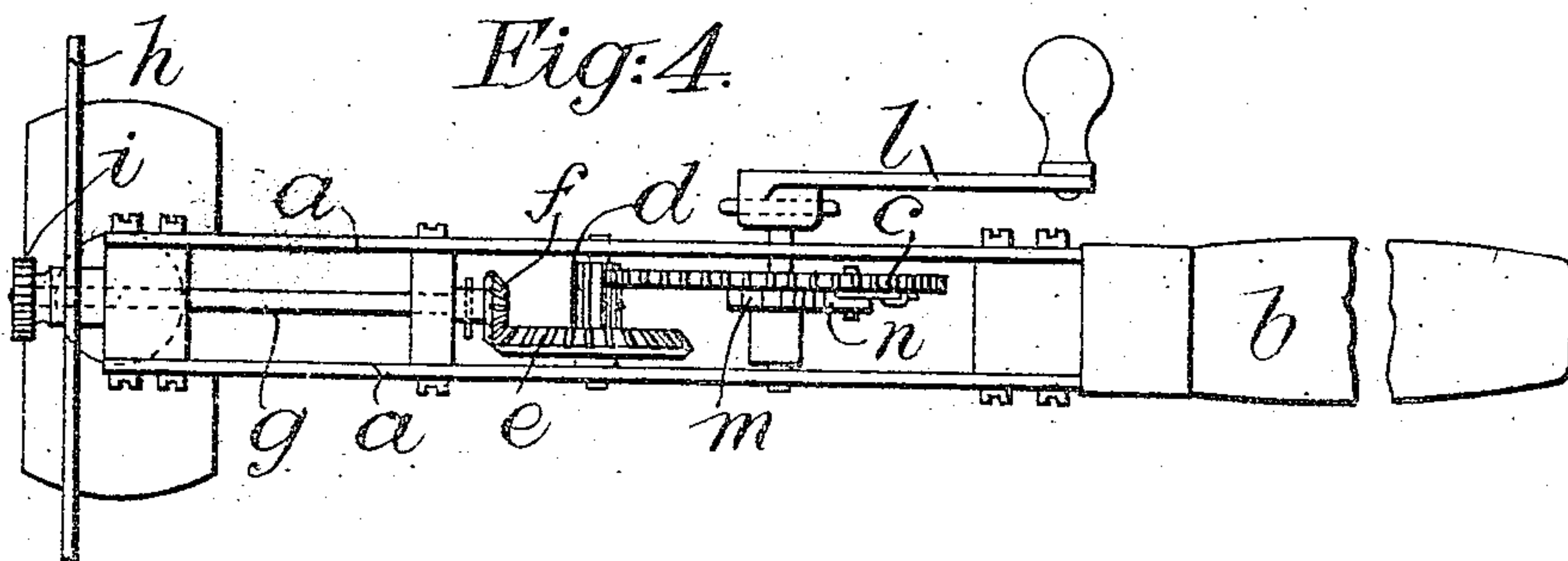


Fig. 4.



Witnesses:  
Helene Washaler  
Christine Keeler

Inventor:  
Jay Van T. Daniels  
By J. H. de Vos  
Attorney.



# UNITED STATES PATENT OFFICE.

JAY VAN TUYL DANIELS, OF LONDON, ENGLAND.

## HAND-GEAR VIBRATORY MASSAGING-MACHINE.

No. 816,564.

Specification of Letters Patent.

Patented April 3, 1906.

Application filed February 18, 1904. Serial No. 194,176.

*To all whom it may concern:*

Be it known that I, JAY VAN TUYL DANIELS, a citizen of the United States of America, residing at Hotel Russell, Russell Square, Bloomsbury, London, England, have invented certain new and useful Improvements in a Hand-Gear Vibratory Massaging-Machine, of which the following is a specification, such as will enable others skilled in the art to which it appertains to make and use the same.

Said invention is fully shown and described in the following specification, of which the accompanying drawings form a part, wherein like or equivalent letters of reference designate like or equivalent parts wherever found throughout the several views, and in which—

Figure 1 is a view in side elevation. Fig. 2 is a view looking toward the left of Fig. 1 of the extreme left end of the mechanism thereof. Fig. 3 is a view similar to Fig. 2 of a slightly-modified form of construction wherein the plate may have its eccentricity varied at will and in which instead of a contact-plate to be applied to the portions of the body to be massaged a ball is used, and Fig. 4 is a top plan view of the form of construction shown in Figs. 1 and 2.

Referring to the drawings, the reference-letter *a* designates a frame, usually of the form shown, carrying at one end the handle *b* and having rigidly secured to the other end and extending at right angles therefrom the stem or rod *j*, to the lower end of which is secured the contact-plate *k* or the contact-ball *r*, as may be desired, either of which may be of any suitable material, form, or size, but usually of about those shown. A spindle *g*, provided at the inner end with a beveled gear-wheel *f* and the other with a boss *g'*, extends longitudinally of the outer end of the frame *a* within the same and is revolvably mounted in suitable bearings, and upon the outer end of this spindle is rigidly and eccentrically mounted the eccentric-wheel *h*, secured upon the spindle by means of the milled thumb-nut *i*.

When desired, as shown in Fig. 3, the wheel *h* is provided with a slot *o* to receive the spindle *g*, and a wing thumb-nut *p* is used in place of the round milled thumb-nut *i*, and by this arrangement it will be seen that the eccentricity of the wheel *h* and the consequent vibratory force exerted upon the rotation may be easily and quickly varied within wide limits.

Mounted in the frame *a* is a pinion *d*, actuating a beveled gear-wheel *e*, meshing with the like beveled gear-wheel *f*, secured to the spindle *g*, and meshing with the pinion *d* is a spur gear-wheel *c*, loosely mounted upon a shaft rotated by a handle *l* or in any other desired manner, which spur gear-wheel *c* is rotated upon the turning of the crank *l* by means of a ratchet-wheel *m* and a spring-pawl *n*, as shown in Figs. 1 and 4.

In operation the contact-plate *k*, which may be of any desired material, shape, or size, or the ball *r*, which may be used in place of such plate *k*, is placed in contact with that portion of the body of the patient to be massaged and pressed firmly down upon the body, the pressure of course varying with different diseases to be cured and the particular portion of the body to be operated upon. While being so held the crank *l* is rapidly rotated, so as to bring about rapid rotation of the fly-wheel *h*, and this being eccentric to the axis of its rotation, and consequently of greater weight on one side than upon the other, it will be seen that a series of tremulous vibrations will thereby be transmitted by way of the plate *k* or ball *r* to that portion of the body of the patient with which the same are in contact.

In some cases instead of an eccentrically-mounted wheel *h* the same may be axially or centrally mounted upon the spindle *g*, but made of greater weight upon one side than upon the other, whereby the same practical vibratory movement will be upon rotation transmitted to the contact plate or ball.

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

1. A vibrating machine for massaging purposes comprising a frame, a spindle journaled therein, a disk carried solely by the said spindle and having its center of gravity to one side the axis of the spindle, and means for driving the spindle to vibrate the frame for imparting vibrations to the body.

2. A vibratory machine for massaging purposes comprising a frame, a spindle journaled therein, a disk carried solely by the said spindle, means for adjusting the center of gravity of said disk in relation to the axis of the spindle and means for driving the spindle to vibrate the frame for imparting vibrations to the body.

3. A vibrating machine for massaging purposes comprising a frame, a contact plate or



device secured to the frame, a driving-spindle rotatably mounted in the frame, a disk mounted solely upon the spindle and rotated thereby the center of gravity of which is eccentric to the axis of the spindle, means for rotating the spindle, the spindle passing through a slot in the disk, and a thumb-nut upon the spindle securing the disk thereto, whereby the axis of rotation of the wheel may be made more or less eccentric.

4. A vibrating machine comprising a frame, a revoluble device mounted thereon having its center of gravity to one side of its center of revolution, means for rotating the said device including a pawl and ratchet whereby said device may rotate freely and in advance of said pawl and ratchet the rotation of said

device vibrating the frame for vibrating the body, substantially as described.

5. In a hand vibrating machine, a rotating spindle, and a disk, eccentrically mounted on the end thereof in a plane perpendicular thereto, substantially as described.

6. In a hand vibrating machine, a rotating spindle, a disk eccentrically mounted on the end thereof in a plane perpendicular thereto, and means for adjusting the eccentricity of the disk, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

JAY VAN TUYL DANIELS.

Witnesses:

WALTER J. SKERTEN,  
T. J. OSMAN.