

No. 860,669.

PATENTED JULY 23, 1907.

J. C. JOHANSEN.  
ABDOMINAL MASSAGE APPARATUS.

APPLICATION FILED SEPT. 28, 1906.

2 SHEETS—SHEET 1.

Fig. 1.

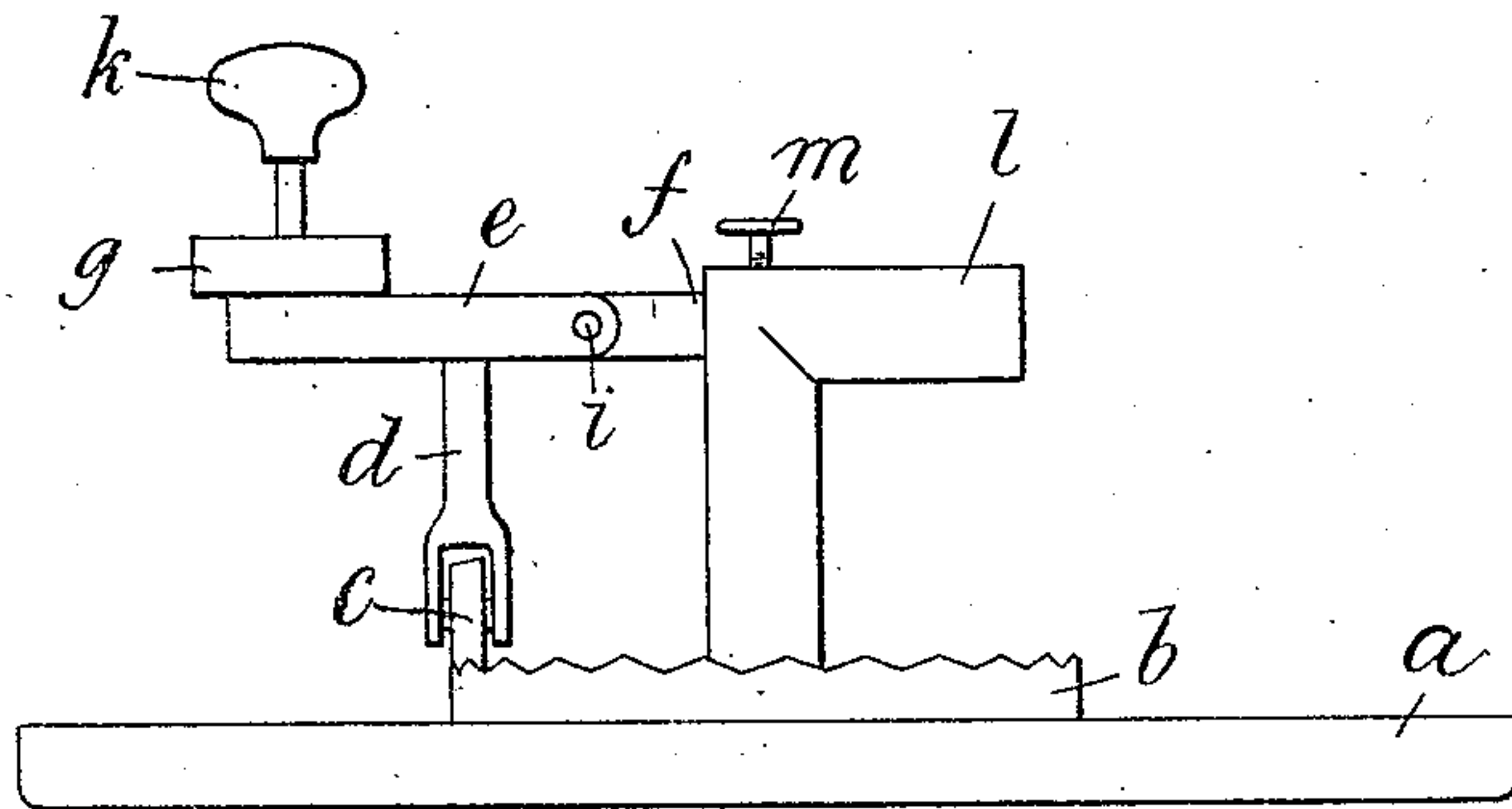
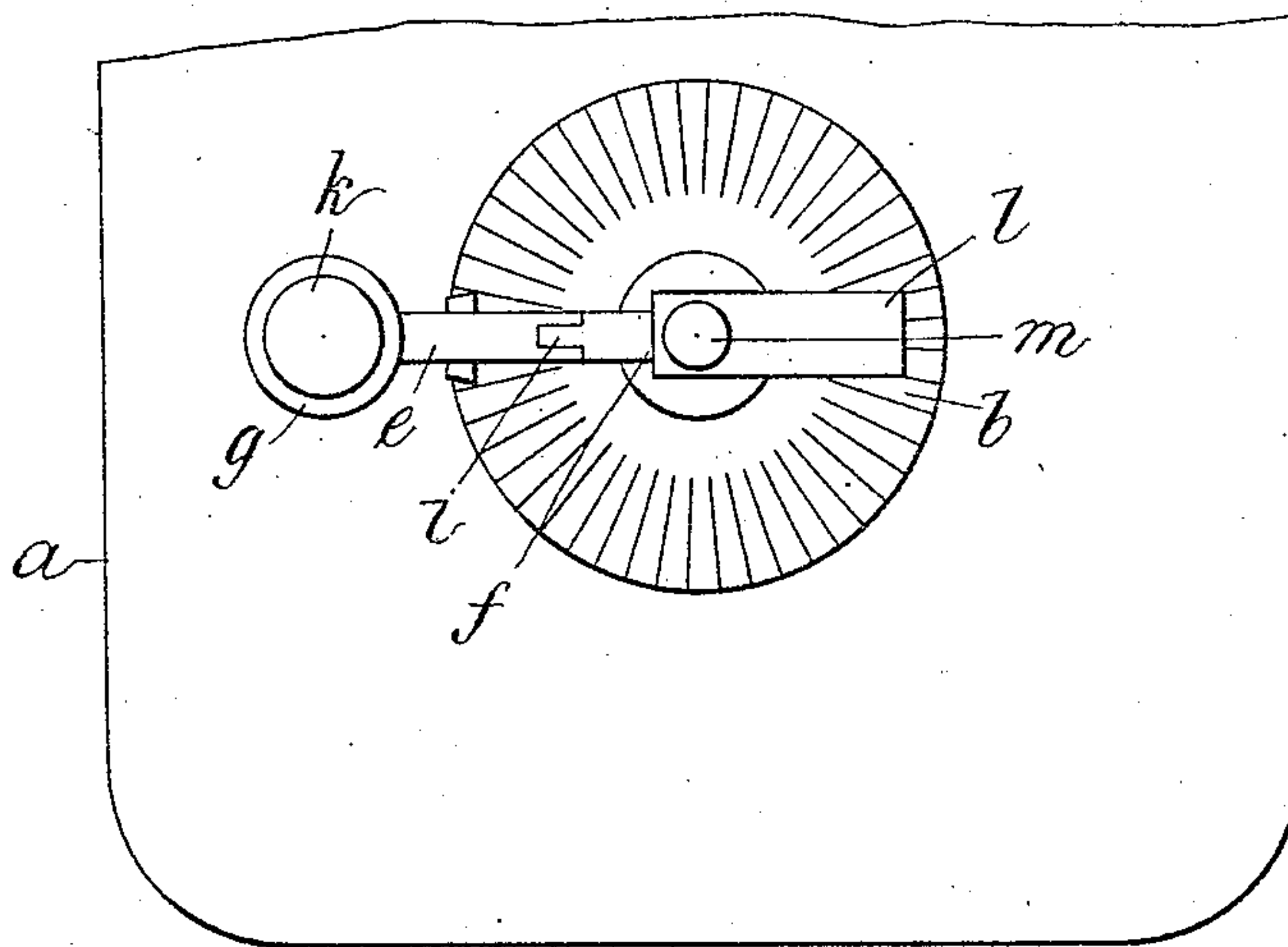


Fig. 2.



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Fig. 3.

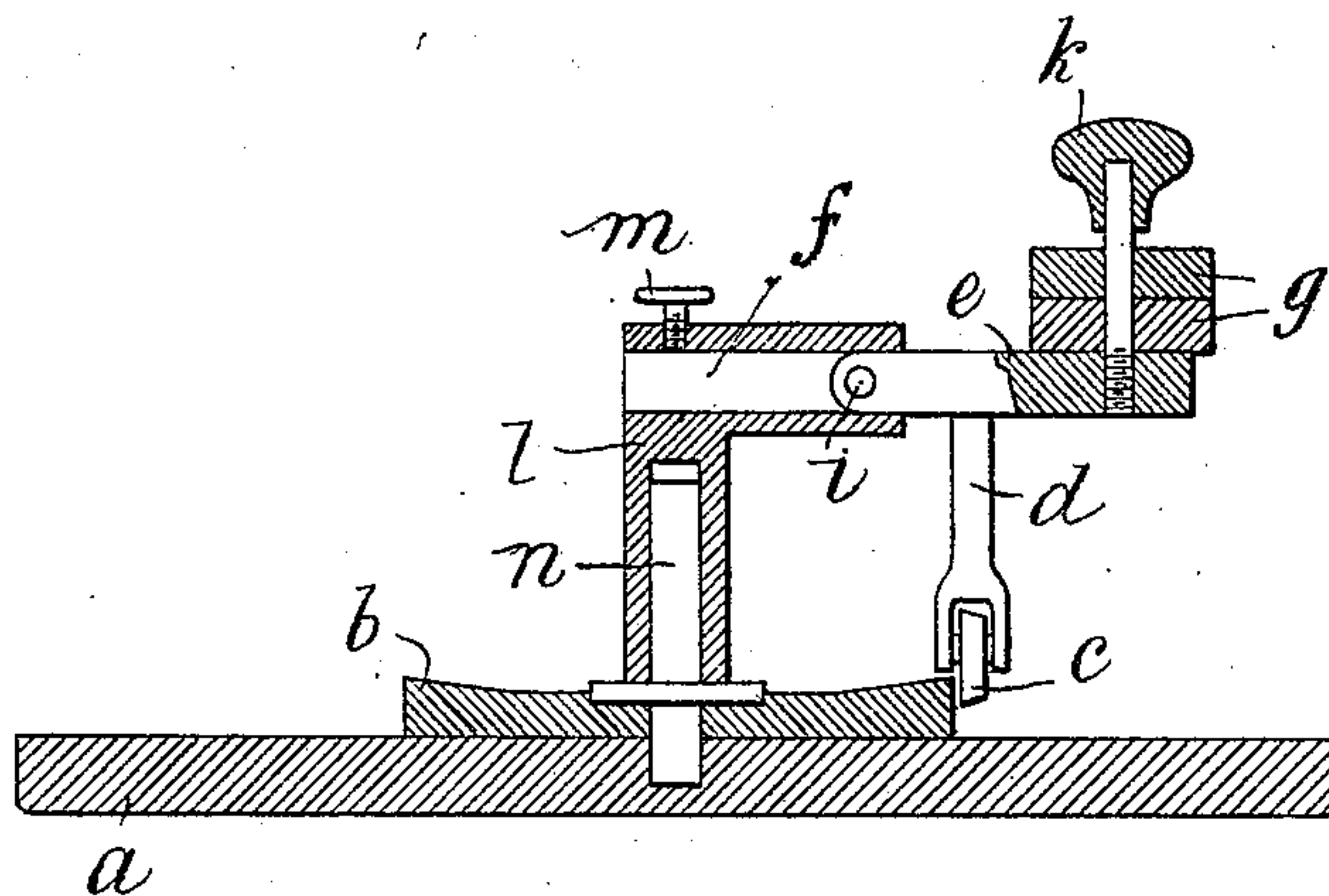
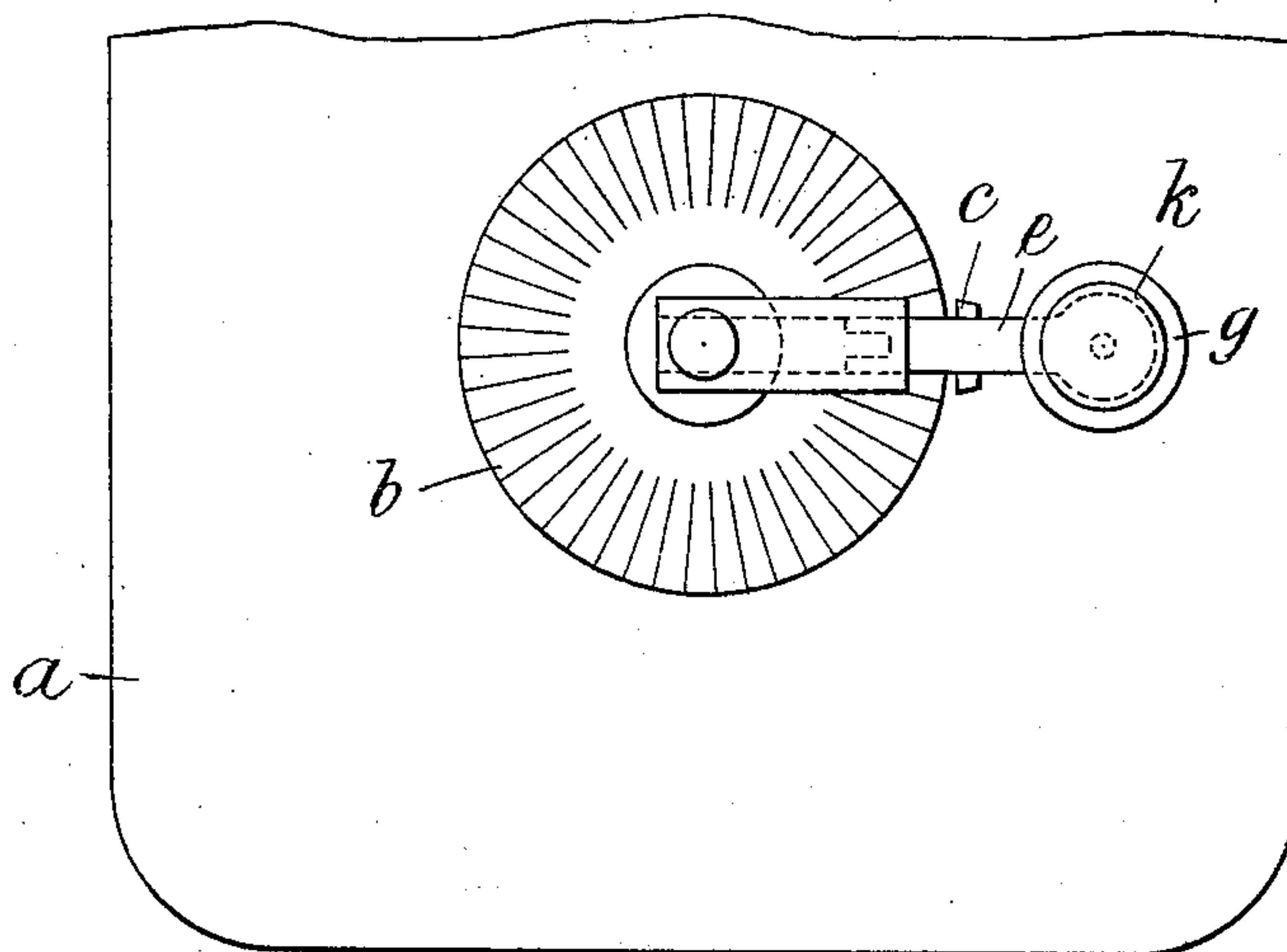


Fig. 4.



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# UNITED STATES PATENT OFFICE.

JOHANNES CHRISTIAN JOHANSEN, OF COPENHAGEN, DENMARK.

## ABDOMINAL-MASSAGE APPARATUS.

No. 860,669.

Specification of Letters Patent.

Patented July 23, 1907.

Application filed September 28, 1906. Serial No. 336,565.

*To all whom it may concern:*

Be it known that I, JOHANNES CHRISTIAN JOHANSEN, physician, a subject of the King of Denmark, whose postal address is Osterbrogade 22, Copenhagen, Denmark, have invented new and useful Improvements in Abdominal-Massage Apparatus, of which the following is a specification.

The apparatus serves to perform abdominal massage.

Figure 1 shows the apparatus in side-view, Fig. 2 represents top-view of the apparatus. Fig. 3 is a vertical section, and Fig. 4 is a top view showing the parts in different position from Fig. 2.

It consists mainly of a plate *a* to be applied at the abdomen. This plate may be flat or curved and shaped to correspond to the form of the abdomen.

The plate *a* is connected to a handle *l, f, e, k*, turnable around the pivot *n* fastened on the plate *a*. The handle is so divided that one part thereof *e, f* is transversely movable in another part *l*, so that thereby the extreme part *k* may be adjusted more or less eccentrically; *m* is a binding screw serving to fix *f* in *l*. On the extreme part of the handle may be hung different weights *g*. When the handle is turned and the plate applied to the abdomen two kinds of motions will be effected, namely (1) a kneading motion, corresponding about to the so-called intestine massage, the outer parts of the plate being depressed at the point where *k* with the weight *g* is situated. (2) circular motions from side to side, their extent depending on the centrifugal force determined by the size and eccentricity of the weight, and on the speed of rotation.

On the drawings is further shown fastened on *a* a disk *b* provided with teeth on its upper edge.

Fig. 1 shows the handle having a hinge *i* and a vertical arm *d* bearing a small wheel *c* adapted to work against the teeth on the disk *b*. When this wheel—as in Figs. 1 and 2—is in contact with the disk *b* a rotation of the handle will cause a series of kneading motions or vibrations, corresponding to the number of teeth passed by the wheel. When the teeth are shallower at their inner than at their outer ends, the vibrations may be diminished by adjusting the handle so that the wheel passes over the shallower part of the teeth.

Figs. 3 and 4 show the handle adjusted so that no vibrating motion can take place.

Having now particularly described and ascertained

the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. In abdominal massage apparatus, the combination of a non-rotative part adapted to contact with the body, and a crank pivoted to said part and adapted to be rotated around the same, said crank having a handle by which it is adapted to be rotated.

2. In abdominal massage apparatus, the combination of a part adapted to contact with the body, a crank pivoted to said part and adapted to be rotated around the same, said crank having a handle by which it is adapted to be rotated, and means for adjusting the distance between the handle and the pivot of said crank so as to vary the movement of said part.

3. In abdominal massage apparatus, the combination of a part adapted to contact with the body, a handle pivoted to said part and adapted to be rotated around the same, and a weight or weights carried by said handle and adapted to act by centrifugal force to move said part laterally in a circular path as the handle is rotated.

4. In abdominal massage apparatus, the combination of a part adapted to contact with the body, a crank mounted upon and pivoted to said part and adapted to be rotated around the same, and means for producing a series of vibrations of said part during each rotative movement of the crank.

5. In abdominal massage apparatus, the combination of a part adapted to contact with the body, a handle pivoted to said part and adapted to be rotated around the same, means for producing a series of vibrations of said part during each rotative movement of the handle, and means for graduating the intensity of such vibrations.

6. In abdominal massage apparatus, the combination of a part adapted to contact with the body, a handle pivoted to said part and adapted to be rotated around the same, and means for producing a series of vibrations of said part during each rotative movement of the handle, said means consisting of a part having a series of teeth and means carried by the handle for working against said teeth.

7. In abdominal massage apparatus, the combination of a part adapted to contact with the body, a handle pivoted to said part and adapted to be rotated around the same, and means for producing a series of vibrations of said part during each rotative movement of the handle, said means comprising a series of tapered teeth and a part carried by the handle adapted to be adjusted to work against said teeth at varying points in their length.

In witness whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

JOHANNES CHRISTIAN JOHANSEN.

Witnesses:

JULIUS SELLMANN,  
HERMAN RÉE.