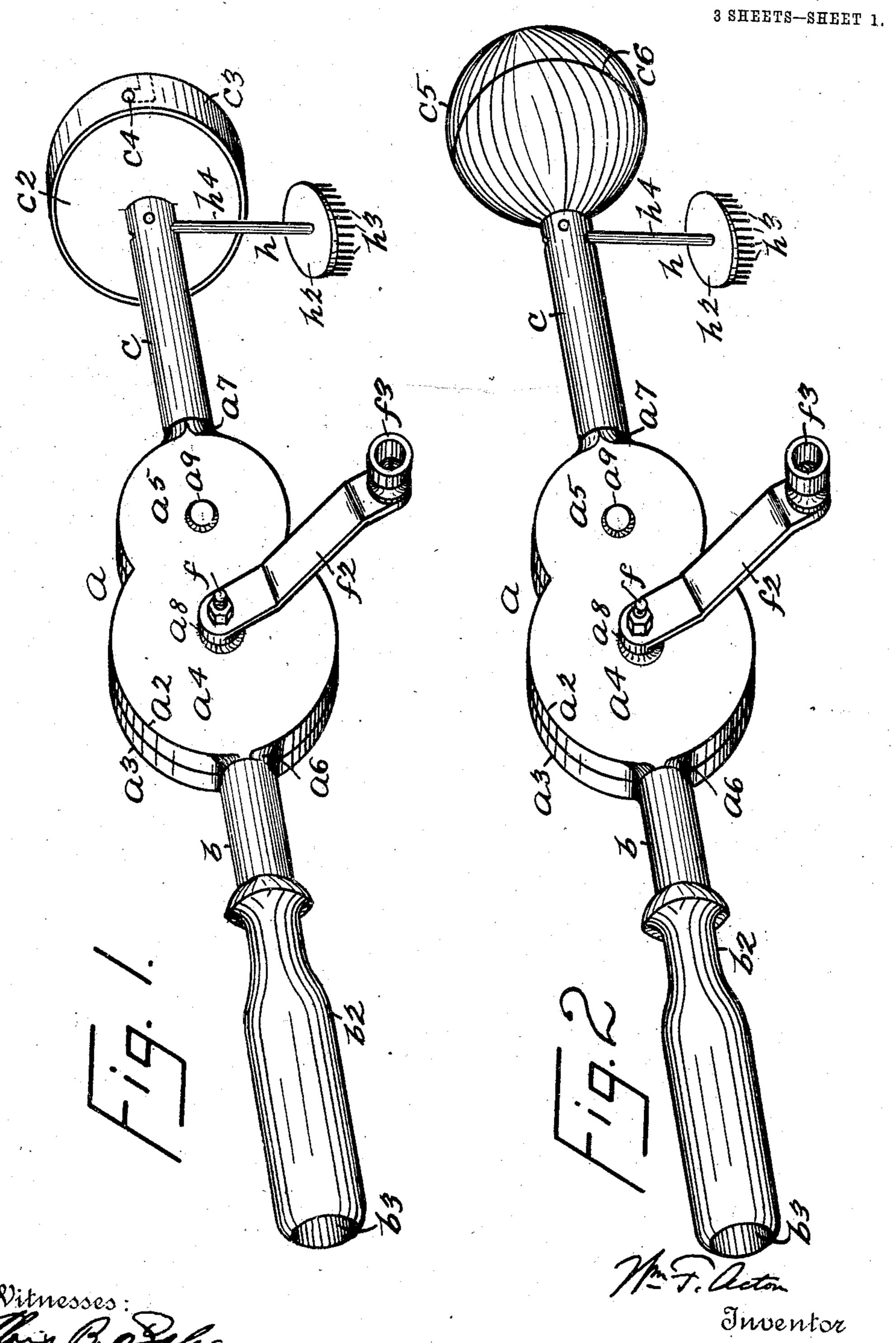
W. F. ACTON.

VIBRATOR.

APPLICATION FILED APR. 16, 1908.

923,234.

Patented June 1, 1909.

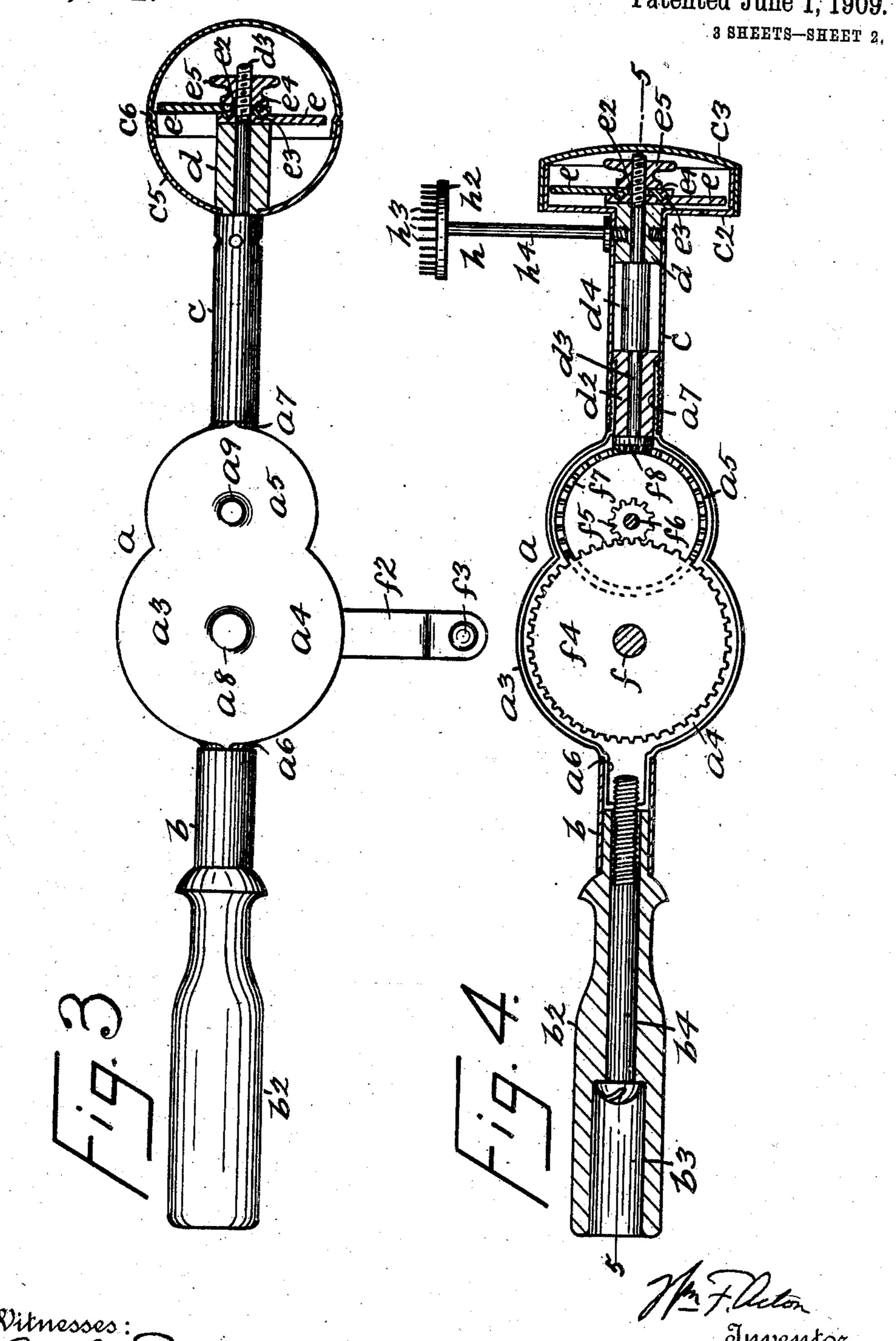


Mitnesses: Alary & Wilson

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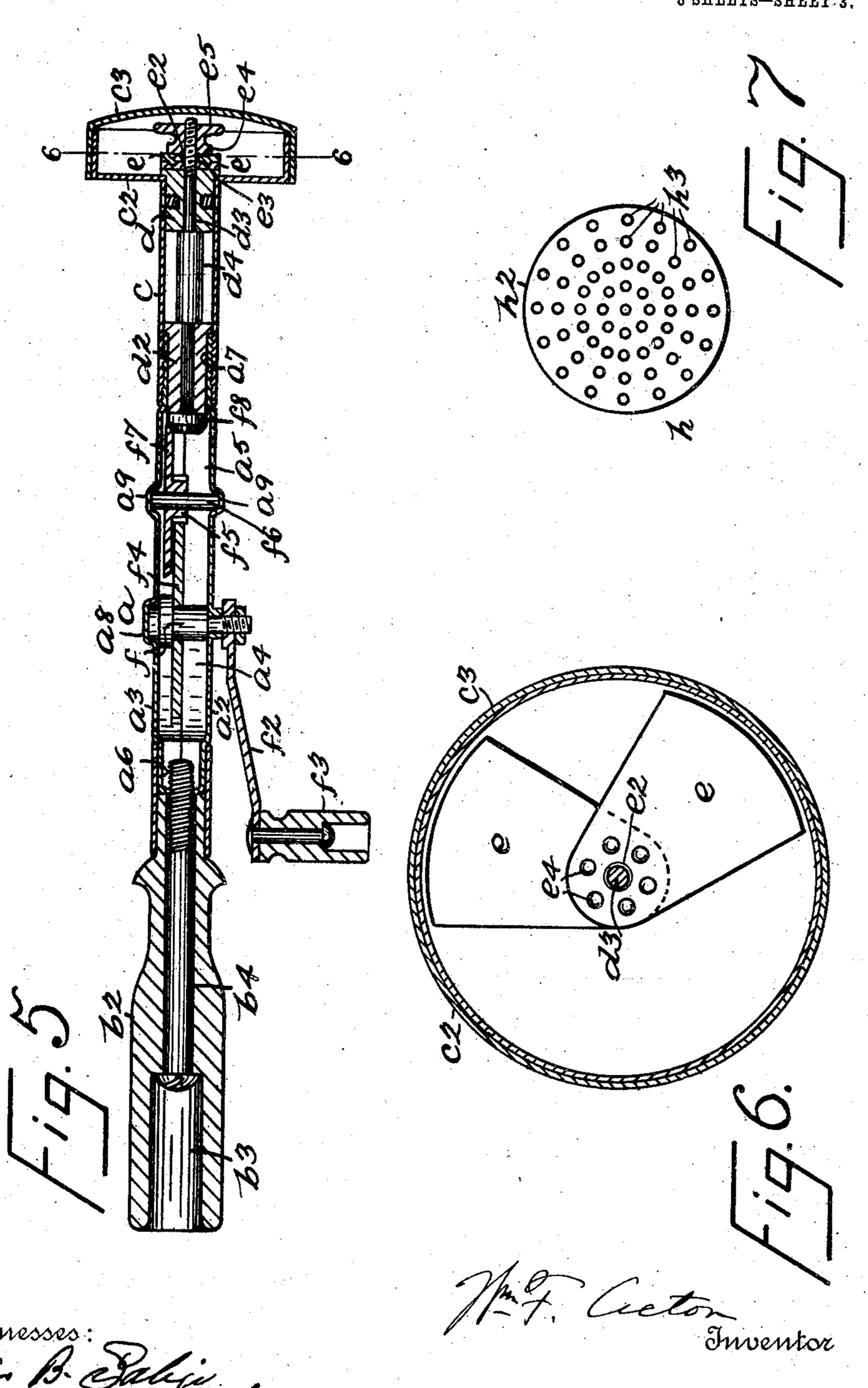
Mitnesses: Alis B. Baliga Harry C. Wilson

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8 SHEETS—SHEET 3.



UNITED STATES PATENT OFFICE.

WILLIAM F. ACTON, OF NORWALK, CONNECTICUT.

VIBRATOR.

No. 923,234.

Specification of Letters Patent.

Patented June 1, 1909.

Application filed April 16, 1908. Serial No. 427,428.

To all whom it may concern:

Be it known that I, WILLIAM F. ACTON, a citizen of the United States, residing at Norwalk, in the county of Fairfield and State of 5 Connecticut, have invented certain new and useful Improvements in Vibrators, of which the following is a specification.

The object of this invention is to provide a portable, mechanical massage vibrator, by means of which one may apply the vibratory treatment to any part of his body con-

veniently.

A further object of this invention is to provide an instrument of the class described in 15 which the intensity of vibration may be conveniently adjusted at the will of the opera-

My invention is fully disclosed in the foltor. lowing specifications of which the accom-20 panying drawings form a part in which similar reference characters are used to indicate similar parts in each of the views and in

which— Figure 1: is a perspective view of one 25 form; Fig. 2: is a similar view of another form; Fig. 3: is a rear view of the form shown in Fig. 2 and partly in section. Fig. 4: is a longitudinal section through the form shown in Fig. 1; Fig. 5: is a similar view at 30 right angles thereto, on the line 5-5 of Fig. 4; Fig. 6 is an enlarged sectional view on the line 6—6 of Fig. 5; and Fig. 7 is a face view of a detail of the device.

In the practice of my invention, I provide 35 a casing a, comprising two members a^2 and a^3 forming circular compartments at and a5, and necks or elongations a^6 and a^7 , the latter

externally screw threaded.

As and a are sockets centrally located in 40 the circular compartments a4 and a5 and serve as bearings for parts hereinafter described.

b is a collar which serves to hold the handle b^2 in position. b^3 is a recess in the said 45 handle which receives the head of the screw b^4 , which is engaged by the threaded neck a^6 . By this means the said handle is securely attached to the casing a.

c is a tube attached at one end to the neck 50 a7 and at the other to the cup shaped head c^2 . c^3 is a convex cover for the said cup shaped head and is secured thereto by means of the bayonet locks c^4 . c^5 shows a variation in the shape of the said cup shaped head, spherical as shown or it may be pear shaped | of mechanical massage vibrators, means have 55 and is joined at c^6 . This shape may be

or egg shaped, the object being to provide an applicator head which may be best suited to the particular needs of the operator or the patient.

d and d^2 are plugs and serve as bearings for the shaft d^3 which has an enlargement d^4 to

keep it in position.

e-e are eccentrically pivoted weights, one threaded to engage similar threads on the 65 shaft d³, and the other provided with a

clearance hole e^2 .

e³ are a plurality of circularly arranged depressions in the threaded weight e, and e4 are a plurality of similar circularly arranged ele- 70 vations on the weight with the clearance hole, and are adapted to engage said circularly arranged depressions. e^5 is a thumb nut adapted to engage the shaft b^3 and to clamp the said weights together. By this means 75 the two weights may be secured to the said shaft in various positions relative to each other and may be arranged opposite to each other so as to balance, or over each other so as to throw their combined weight on one 80 side of the shaft b^3 .

f is a shaft secured to the gear f^4 , and the crank f^2 . f^3 is a handle for said crank.

 f^6 is a shaft to which is secured the bevel gear f^7 and the pinion f^5 which is engaged by 85 the gear f^4 . The bevel gear f^7 engages the bevel pinion f^8 which is secured to one end of the shaft d^3 . Thus by turning the crank f^2 , the shaft e^3 may be caused to rotate rapidly and as the weights on the other end 90 of said shaft are secured thereto eccentrically the desired vibration is produced depending for their rapidity on the speed of rotation of the said crank, and for their intensity on the relative position to each other of the said 95 eccentrically pivoted weights on the shaft d^3 .

h shows a special applicator comprising a body member h² with outwardly extending fingers h3, made of rubber or other suitable material and a metal attachment rod h^4 100 screw threaded at the free end so as to engage '

the tube c and the plug d.

While I am aware that other mechanical vibrators have been made, I believe that the shape of the applicator head I herein show 105 and describe produces a new and useful result in that it enables the patient or the operator to apply the vibratory treatment to different parts of the body with greater ease and efficiency than was heretofore possible, and while 110 I am also aware that in the different forms

been in use for varying the intensity of vibration, the device I herein show and describe, proves in practice to be the most simple and efficient for my purpose.

Having fully described my invention, what I claim as new and desire to secure by

Letters Patent, is—

1. A mechanical massage vibrator comprising a casing, a handle attached thereto, 10 at one end and a tube at the opposite end, a shaft rotatably mounted within said tube, a gear mechanism contained in said casing adapted to rotate said shaft rapidly, a means for actuating said gear mechanism, two

15 weights, each pivoted at one end on said rotatably mounted shaft, a series of circularly arranged depressions in one weight and a similar series of circularly arranged elevations, on the other weight, a lock nut on said

shaft, adapted to hold said weights in position, and a suitable casing for inclosing said weights, which said casing is to be used as an applicator to be applied to the body, substantially as shown and described.

2. A mechanical massage vibrator, com-25

prising a casing, a handle attached thereto, at one and a tube at the opposite end, a shaft rotatably mounted within said tube, a gear mechanism, contained in said casing and adapted to rotate said shaft rapidly, a 30 means for actuating said gear mechanism, a wedge shaped weight, screw threaded at its extreme end on said rotatably mounted shaft, a similar weight pivoted at its extreme end on said rotatably mounted shaft, but adapted 35 to turn freely thereon, a means for locking said freely moving weight in any desired position with reference to the other weight, and a suitable casing for inclosing said weights, which said casing is to be used as an 40 applicator to be applied to the body, substantially as shown and described.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses, this 13th day of 45

April, 1908.

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WM. F. ACTON.

Witnesses:

Alois B. Saliger, HARRY C. WILSON.