

No. 658,481.

O. C. A. CARLSSON.
MASSAGE APPARATUS.

(Application filed Dec. 28, 1897.)

Patented Sept. 25, 1900.

(No Model.)

2 Sheets—Sheet 1.

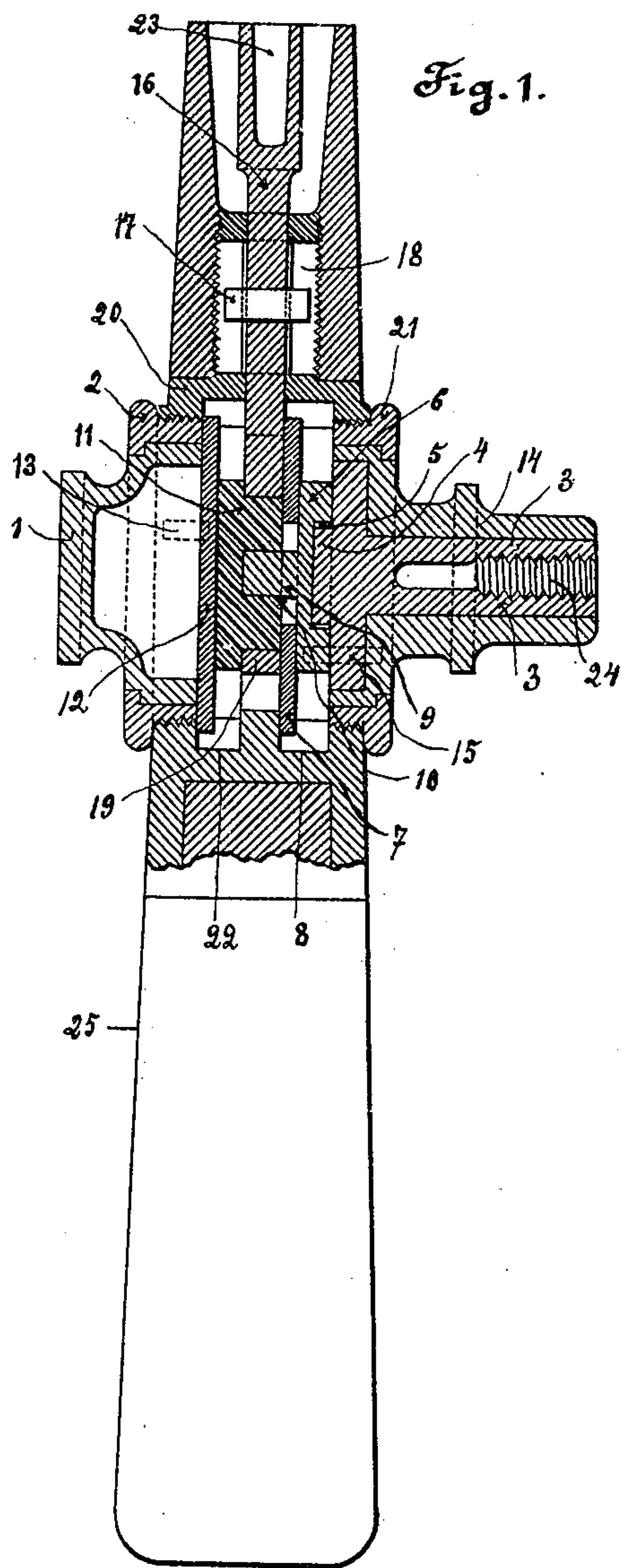


Fig. 1.

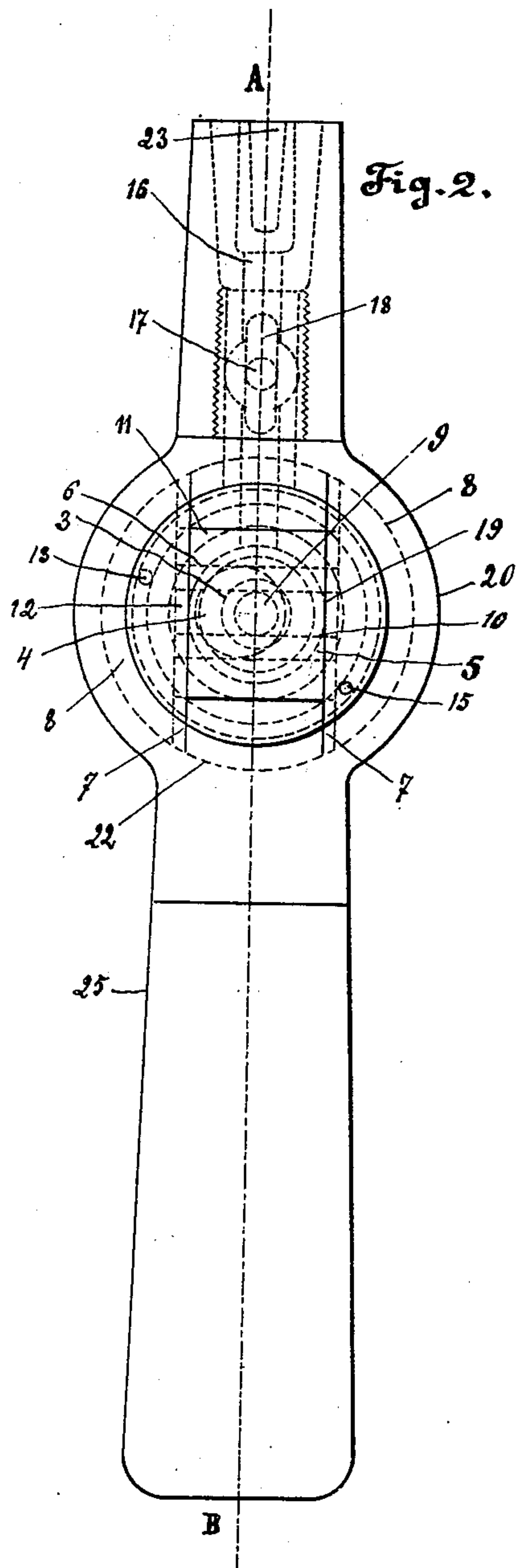


Fig. 2.

Witnesses:
Peril Brander
H. Ostberg

Inventor
Oscar Carl August Carlsson
by Olof Dahl
his att'y

No. 658,481.

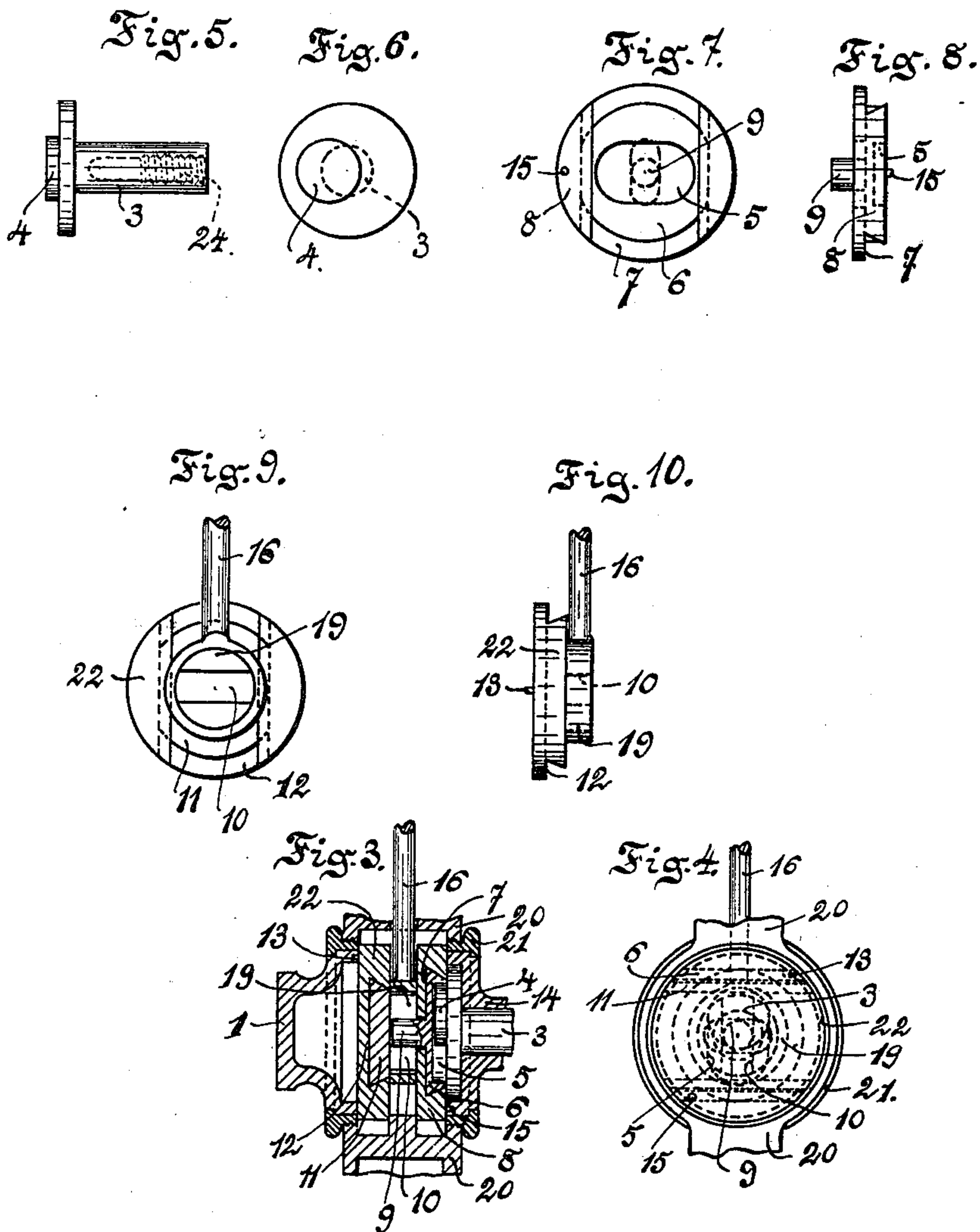
Patented Sept. 25, 1900.

O. C. A. CARLSSON.
MASSAGE APPARATUS.

(Application filed Dec. 28, 1897.)

(No Model.)

2 Sheets—Sheet 2.



Witnesses:
Gustaf Isfeldt.
Lorenz Lindkvist.

Inventor:
O. C. A. Carlsson
by A. Dahl
his att'y

UNITED STATES PATENT OFFICE.

OSCAR CARL AUGUST CARLSSON, OF STOCKHOLM, SWEDEN.

MASSAGE APPARATUS.

SPECIFICATION forming part of Letters Patent No. 658,481, dated September 25, 1900.

Application filed December 28, 1897. Serial No. 664,151. (No model.)

To all whom it may concern:

Be it known that I, OSCAR CARL AUGUST CARLSSON, a subject of the King of Sweden and Norway, and a resident of Bryggaregatan 7, Stockholm, Sweden, have invented a new and useful Improvement in Apparatus for Treatment by Mechanical Massage, (for which I have obtained Letters Patent in Sweden, No. 7,503, dated April 23, 1896, and No. 8,395, dated April 6, 1897, and in Germany, No. 92,636, dated May 15, 1896,) of which the following is a specification, reference being had to the drawings accompanying and forming a part of the same.

This invention refers to apparatus for treatment by mechanical massage.

The object of this invention is an improved apparatus of that kind in which a driving-axle is journaled in a handle which contains a connecting-rod, the outer end of which carries a massage-pad and the inner end of which is eccentrically connected to said axle, so as to be set in motion thereby, in which not only the movement of the massage-pad may be changed from, for instance, lateral to longitudinal, but also lessened or stopped while the driving-axle of the apparatus maintains a continuous and unabated speed.

The invention consists, briefly speaking, in having the connecting-rod that carries the pad actuated by a slide so arranged that it has only a rectilinear movement in a turnable guide, by the turning of which the movement of the connecting-rod is changed from one kind to the other. Movement may be imparted to said slide by the driving-axle by means of an eccentric or eccentric-tap fixed to the driving-axle. In order that also the length of the stroke may be altered, said eccentric-tap may impart motion to the said slide by some such means as a second slide movable only in a rectilinear direction in a second turnable guide, so that by turning said second guide the movement of the first-mentioned slide may be changed from full to nothing, or vice versa. Said changeability may also be effected by having the eccentric-tap movably attached to the axle in such a manner that the eccentricity of the tap may be changed.

An apparatus embodying my invention is shown in the accompanying drawings, in which—

Figure 1 shows the apparatus in section along the line A B in Fig 2. Fig. 2 is a side view of the apparatus, as shown in Fig. 1, with parts 1 and 2 removed. Figs. 3 and 4 are similar views of the central part of the apparatus, showing the mechanism in a position at ninety degrees to that shown in Figs. 1 and 2; and Figs. 5 to 10 show details of said mechanism.

The regulating-knob 1 is held fast by the annular screw 2 to the frame 20 of the apparatus, so as to be turnable in the same. The driving-axle 3 is journaled in the elongated regulating-knob 14, which is turnably held fast to the said frame 20 by the annular screw 21. The eccentric-tap 4 on the axle 3 can move back and forth in the transverse groove 5 in the slide 6, which can move along the slide-planes 7. These latter are formed in the round slide 8, which can be turned in the frame 20 by means of the pin 15, fastened in the knob 14 and entering an aperture in the said slide 8. A tap 9 is centrally fastened to the slide 6 and is movable in the transverse slot 10, arranged in the slide 11, which in its turn is movable along the slide-planes 12. Said slide-planes 12 are formed in the round slide 22. This latter can be turned in the frame 20 by means of the pin 13, fixed to the knob 1 and entering an aperture in the said slide 22. To the connecting-rod 16 is fastened the tap 17, which is movable in the groove 18 of the frame and serves to guide said connecting-rod, so that it may move either longitudinally or may oscillate around said tap 17. The one end of the connecting-rod 16 is journaled on the central journal 19 of the slide 11, so as to be moved by the same. The hole 23 in the other end of the connecting-rod constitutes a fastening-point for the massage-pad, which for the sake of clearness is not shown in the drawings. The frame 20 is a part of the handle 25.

When the apparatus is to be used, a flexible axle is connected to the axle 3 by means of the threads 24, and when the axle is set in rotation the slide 6, the tap 9, the slide 11,

and the connecting-rod 16 are given a rectilinear movement, whose direction will be lengthwise of the handle when the regulating-knobs have the positions shown in Figs. 1 and 2. This movement is also communicated to the massage-pad attached to the end of the connecting-rod. If one of the regulating-knobs 1 or 14 is turned, the speed is decreased, and when turned ninety degrees the connecting-rod stops on account of the groove 10, groove 5 being longitudinal in relation to the handle. If both knobs are turned, the connecting-rod is given a lateral movement which increases up to ninety degrees of turning, while the longitudinal movement is decreased and is stopped at ninety degrees of turning. If the slide 6 is first turned an angle of ninety degrees, the longitudinal movement of the connecting-rod is stopped, as above stated, and if the slide 11 is afterward turned, so that the slides have the position shown in Figs. 3 and 4, there is only a lateral movement.

The apparatus may be modified in its details, as will be well understood by any person skilled in the art, without departing from the spirit of the invention.

Having now described my invention, what

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

The combination in an apparatus of the class described having an axle journaled in the handle and a connecting-rod located in said handle the outer end of said connecting-rod carrying the massage-pad and the inner end being eccentrically connected to said axle, of a guide turnable in the said handle, means for turning said guide, a slide movable longitudinally in said guide and provided with a transverse slot in which the eccentric of said axle engages, a second guide turnable in the said handle, means for turning said second guide, a slide movable in said second guide and provided with a transverse slot in which a central tap of the first-mentioned slide engages and a journal for the said connecting-rod, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 14th day of December, 1897.

OSCAR CARL AUGUST CARLSSON.

Witnesses:

H. ÖSTBERG,

M. FORNANDEZ.