

No. 897,791.

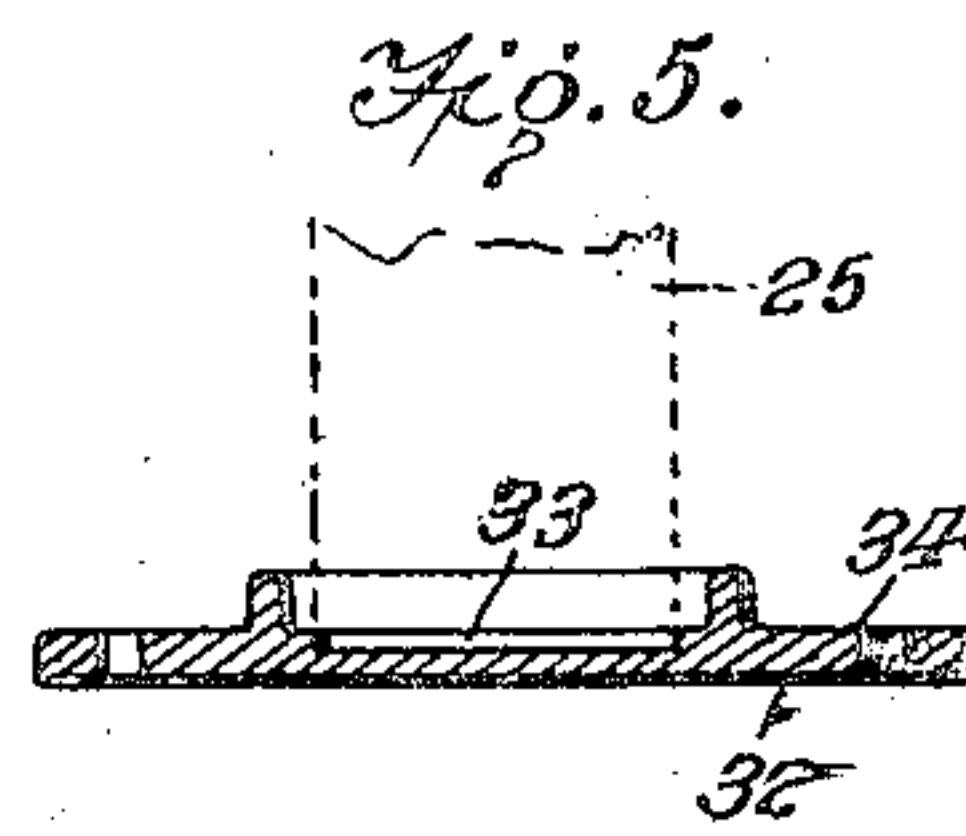
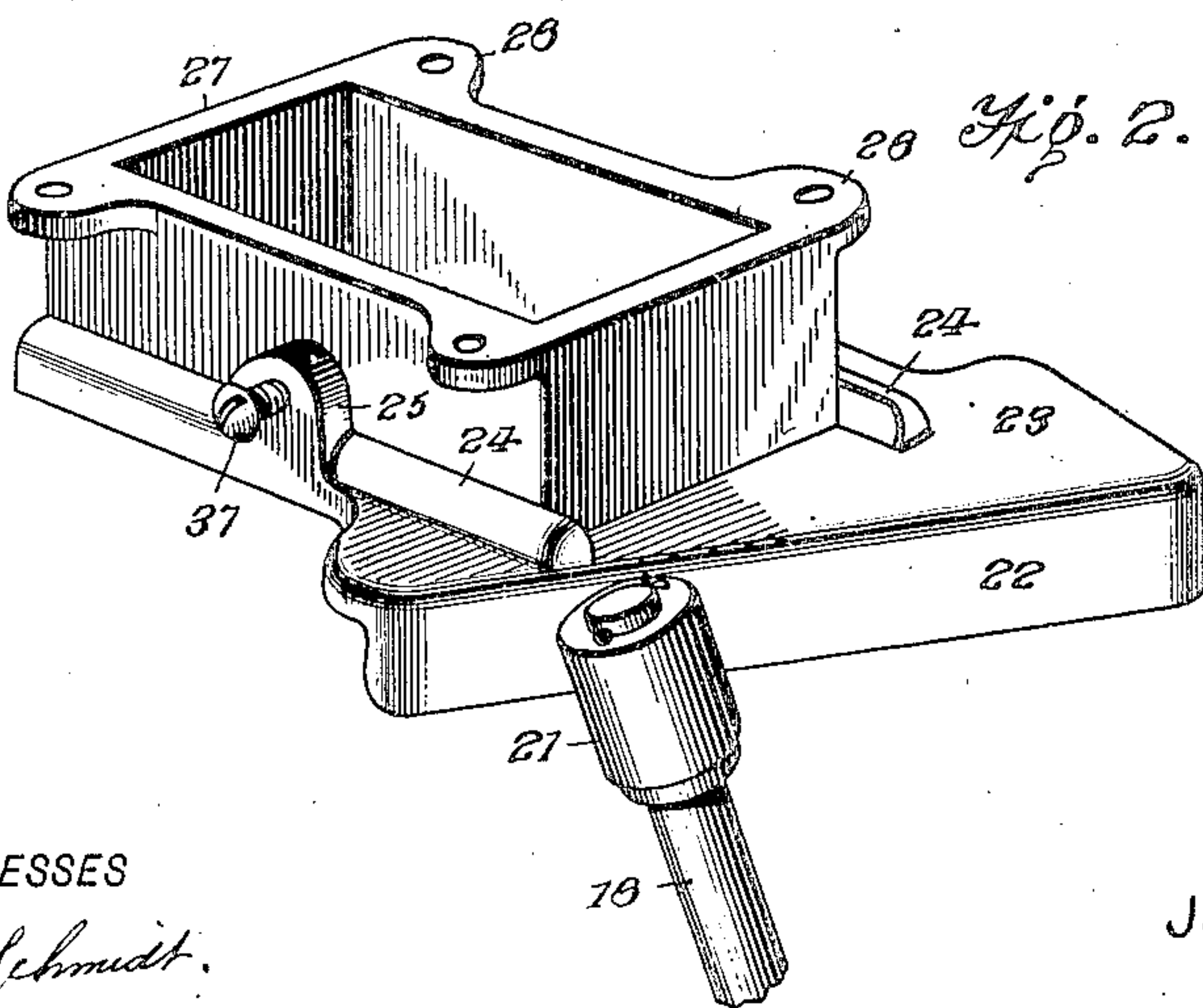
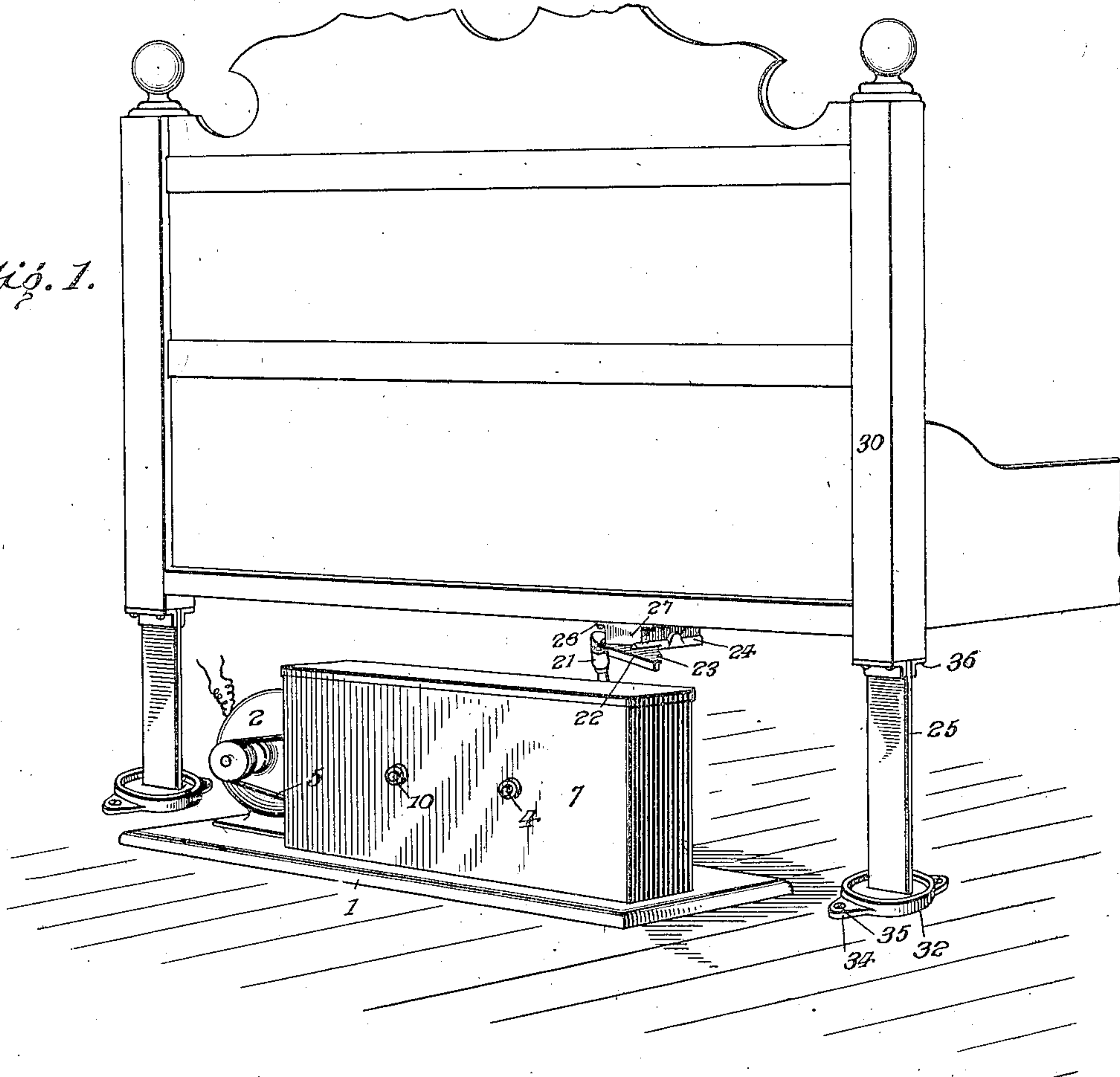
PATENTED SEPT. 1, 1908.

J. A. SEEBER.
VIBRATING BED.

APPLICATION FILED DEC. 10, 1907.

2 SHEETS—SHEET 1.

Fig. 1.



WITNESSES

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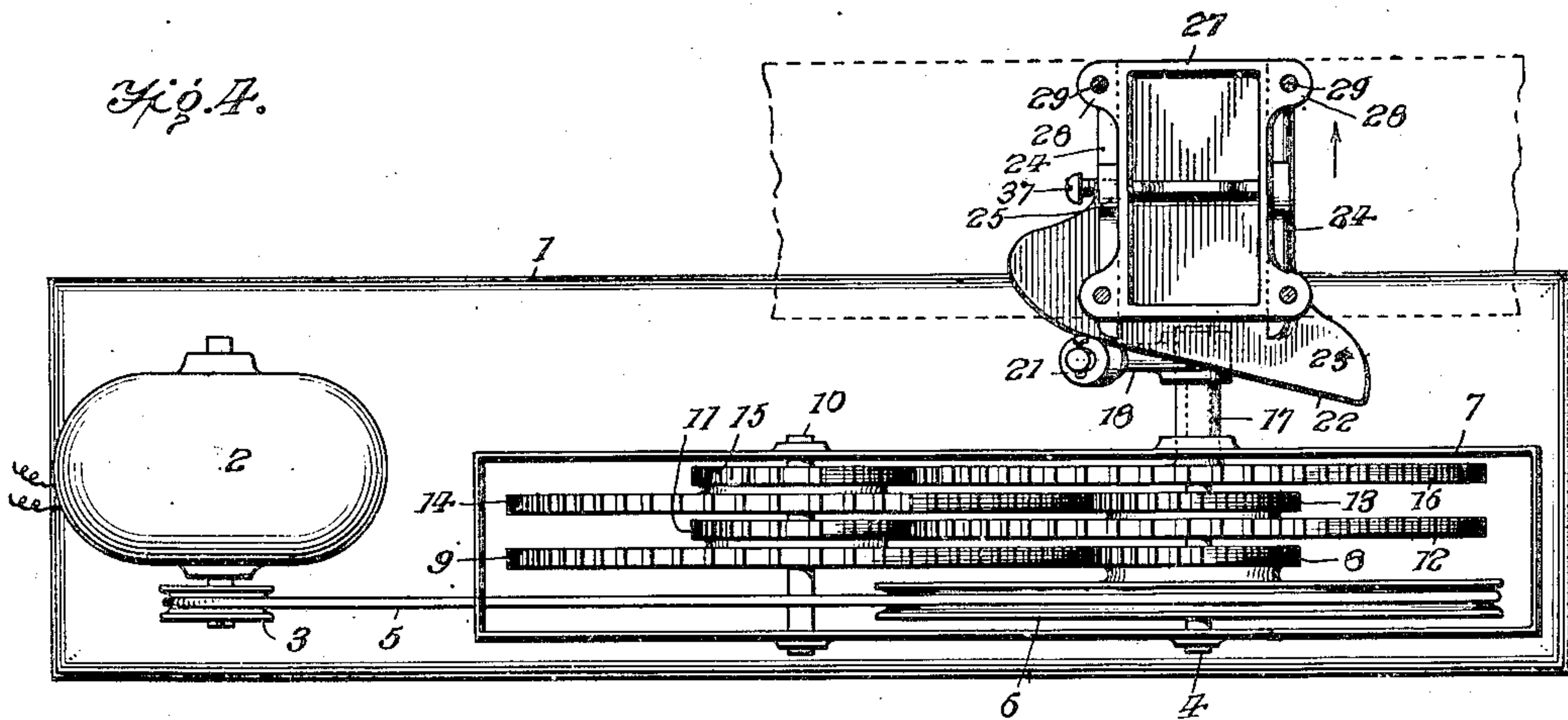
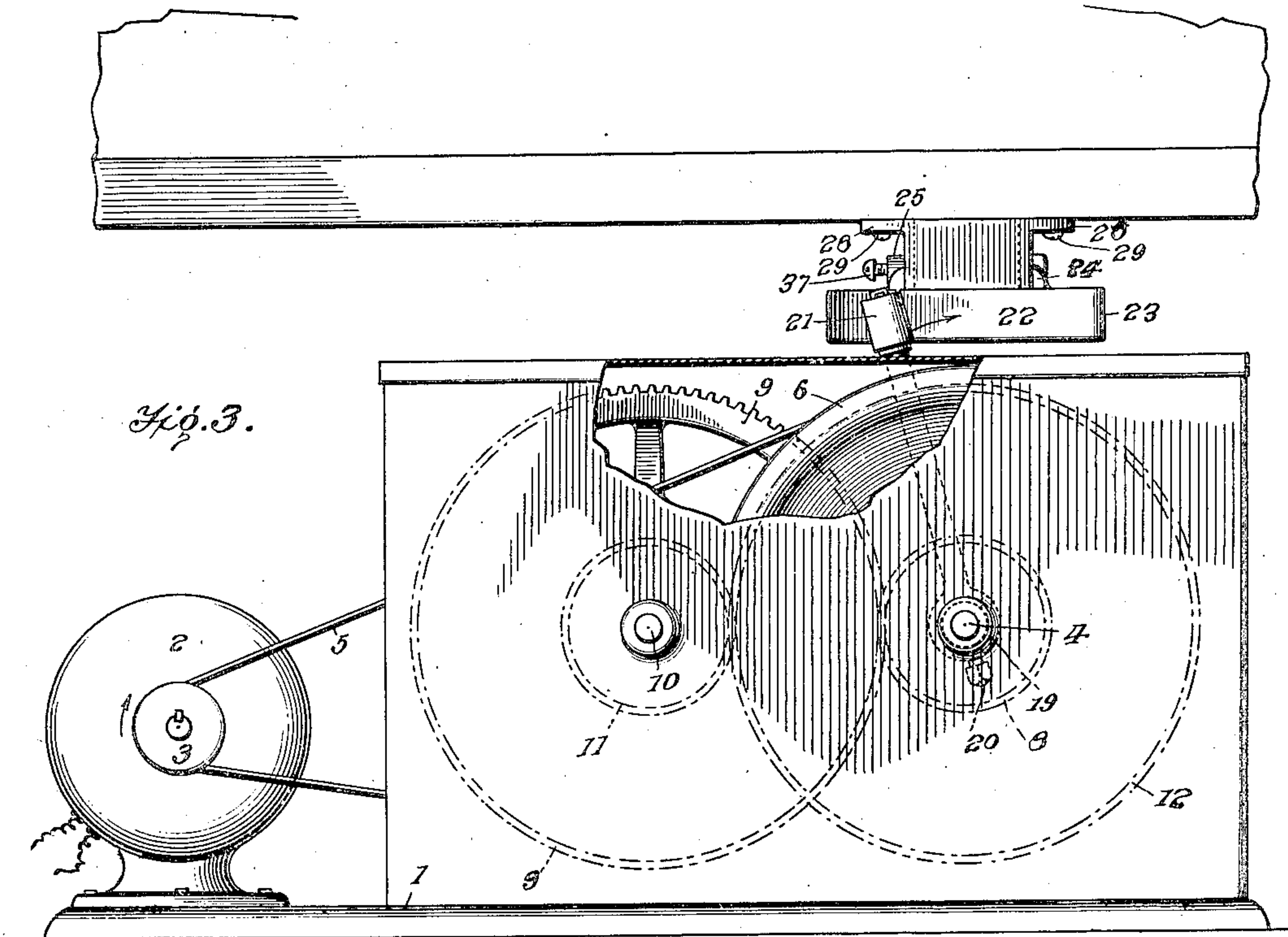
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2 SHEETS—SHEET 2.



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JOHN ADAMS SEEGER, OF PORTLAND, OREGON.

VIBRATING BED.

No. 897,791.

Specification of Letters Patent.

Patented Sept. 1, 1908.

Application filed December 10, 1907. Serial No. 405,844.

To all whom it may concern:

Be it known that I, JOHN ADAMS SEEGER, a citizen of the United States, and a resident of Portland, in the county of Multnomah and State of Oregon, have invented certain new and useful Improvements in Vibrating Beds, of which the following is a specification.

My invention is an improvement in vibrating beds, and consists in certain novel construction and combination of parts hereinafter described and claimed.

Referring to the drawings forming a part hereof Figure 1 is a perspective view of a part of a bed provided with my improvement. Fig. 2 is a detail perspective view of the cam plate and its support. Fig. 3 is an end view of a portion of the bed and the vibrating mechanism. Fig. 4 is a plan view of the vibrating mechanism and, Fig. 5 is a section through the socket plate.

In the present embodiment of my invention, the bed 30 is of any desired construction, and is supported by legs 25 of resilient material, the said legs being attached to the corner posts of the bed by flanges 36, and the lower end of the legs is received in a slot 33, in a socket plate 32, the said socket plate being provided with ears 34 having openings therethrough for receiving the screws 35 whereby the plates may be attached to the floor. The vibrating mechanism comprises a base 1 upon which is supported a motor 2 of any preferred construction, in the present instance an electric motor, the pulley 3 of the motor being connected by a belt 5, with a pulley 6 journaled loosely on a shaft 4, mounted in a casing 7 supported by the base. The pulley 6 has secured to one face thereof a pinion 8 meshing with a gear wheel 9 journaled on a counter shaft 10, supported by the casing. The gear wheel 9 has secured to the face thereof a pinion 11, meshing with a gear wheel 12, journaled on the shaft 4 above mentioned, and having secured to the face thereof, a pinion 13, meshing with a gear wheel 14, journaled on the counter shaft. The gear wheel 14 has secured to the face thereof, a pinion 15, which meshes with a gear wheel 16, provided with a hub 17, journaled on the shaft 4. An arm 18 is provided with a bearing 19 for receiving the hub, and is secured thereto by a set screw 20. The free end of the arm is provided with a roller

21, which when the arm revolves, engages the inclined edge 22 of a plate 23, provided on its upper face with spaced parallel ribs 24, between which is received a box 27, provided at its upper edge with ears 28, having openings therethrough for receiving screws 29, whereby the box may be secured to the bottom of the bed. Lugs 25 are provided at approximately the center of the ribs and screws 37 traverse the lugs and engage the sides of the box for securing the said box in place. By the provision of the above described mechanism the plate 23 may be adjusted with respect to the box, whereby to vary the extent of the vibration of the bed.

The object of the invention is to impart a continuous vibration to the bed, and the extent of the vibration may be varied by adjusting the cam plate 23 on the box 27.

I claim:

1. The combination with the bed, of spring legs for supporting the same, and means for vibrating the bed, said means comprising a motor, an arm mounted for swinging movement in a circle and driven by the motor, a friction roller on the end of the arm, a plate provided with an inclined edge with which the roller coöperates, and with spaced parallel ribs on its upper face, a box secured to the bed and movable between the ribs, and a set screw connecting the box with the plate.

2. The combination with the bed, of spring legs for supporting the same, and means for vibrating the bed, said means comprising a motor, an arm mounted for swinging movement in a circle and driven by the motor, a plate provided with an inclined edge with which the arm coöperates, a box secured to the bed, and means for adjustably connecting the plate with the box.

3. The combination with the bed, of spring legs for supporting the same, and means for vibrating the bed, said means comprising a motor, an arm mounted for swinging movement in a circle and driven by the motor, a plate adjustably secured to the bed and provided with an inclined edge with which the roller coöperates.

4. The combination with the bed, of spring legs for supporting the same, and means for vibrating the bed, said means comprising a motor, an arm mounted for swing-

ing movement in a circle and driven by the motor, and a cam surface on the bed, with which the arm coöperates.

5 In combination, a spring supported bed, and means for vibrating the bed, said means comprising an arm mounted for rotating movement, and a cam surface on the bed

with which the arm coöperates, and means for operating the arm.

JOHN ADAMS SEEGER.

Witnesses:

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