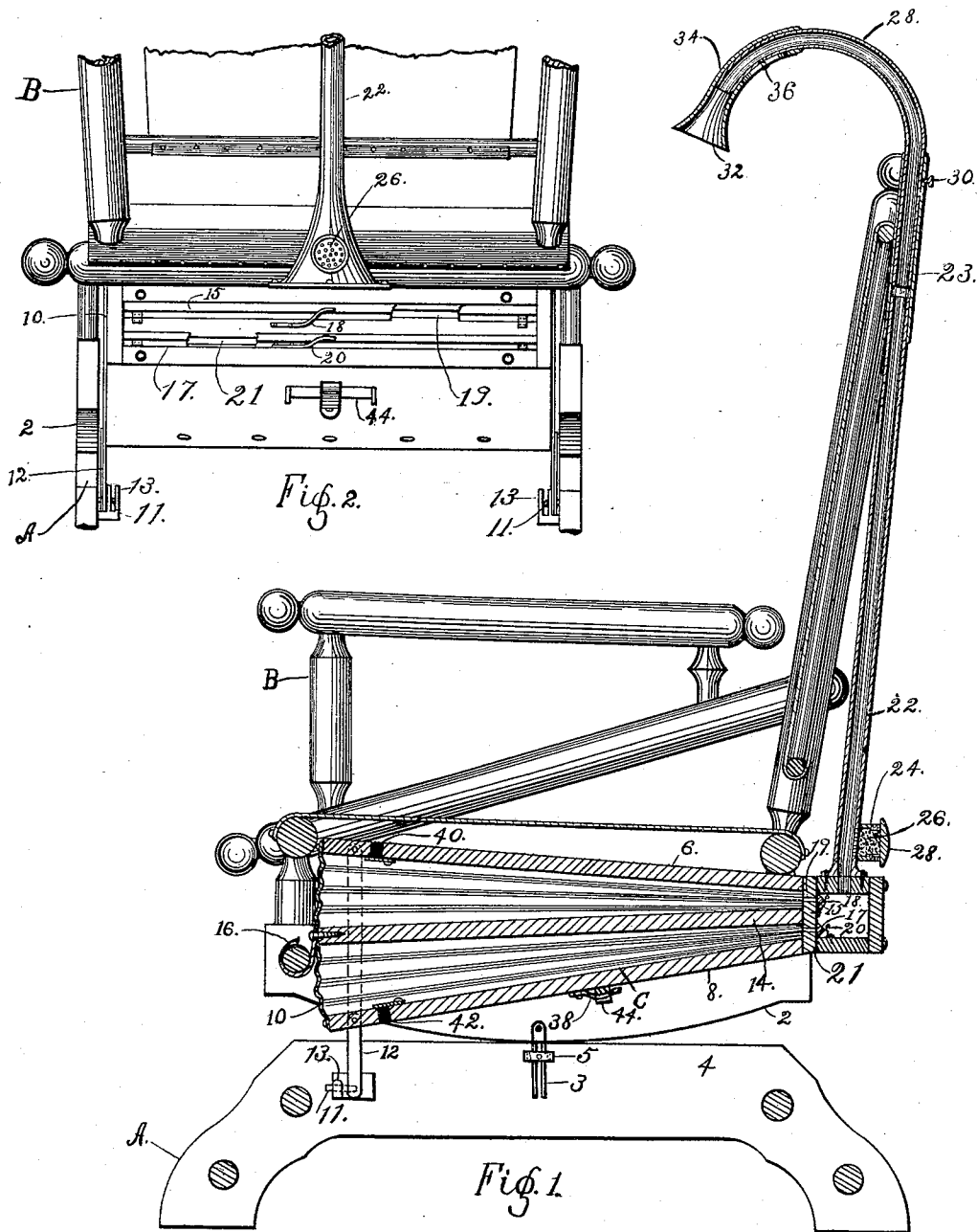


(No Model.)

A. P. WATSON.
PNEUMATIC CHAIR.

No. 484,072.

Patented Oct. 11, 1892.



Witnesses-

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UNITED STATES PATENT OFFICE.

ABRAM P. WATSON, OF LAKE CITY, MINNESOTA.

PNEUMATIC CHAIR.

SPECIFICATION forming part of Letters Patent No. 484,072, dated October 11, 1892.

Application filed May 14, 1891. Serial No. 392,791. (No model.)

To all whom it may concern:

Be it known that I, ABRAM P. WATSON, of Lake City, Wabasha county, Minnesota, have invented certain Improvements in Pneumatic Chairs, of which the following is a specification.

My invention relates to attachments to rocking-chairs, its object being to provide means operated by the rocking motion of the chair for creating a current of air and directing it upon the occupant of the chair. Underneath the chair-seat is arranged a double bellows having its upper and lower boards connected to the base or stationary frame and its middle board connected to the rocking or seat frame, whereby the bellows is operated by the rocking motion of the chair in either direction. The bellows is provided with an outlet-pipe secured to the back of the chair, an adjustable nozzle for said pipe, and a lateral tube or socket communicating with said pipe is adapted to hold a mass of absorbent material saturated with a perfume for the purpose of perfuming the air as it passes from the bellows through the pipe.

My invention further consists in the construction and combination hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a sectional side elevation of a chair fitted with my improved attachment, showing the construction and connection of the bellows and its fittings; and Fig. 2 is a partial rear elevation of the same.

In the drawings, A represents the stationary base or frame of the chair; B, the upper or rocking frame, which is secured to the frame A in any suitable manner, as by means of the strap 3, sliding in the guide 5, and is provided with rockers 2, bearing upon the side bars or frame-pieces 4 of the base. Arranged between the seat and the frame A is the double bellows C, having the top and bottom boards 6 and 8, provided, respectively, with valves 40 and 42 and connected together by the links 10, which in turn are connected to the frame A by links 12, whereby these boards of the bellows are fixed relatively to each other and to the frame A. The links 12 are detachably connected to

the frame A by means of hooked pins 11, the ends being turned to engage stops 13. The middle board or partition 14 of the bellows is secured to the ring 16 of the rocking frame, whereby the motion of the chair causes it to move up and down between the top and bottom boards of the bellows. The outlet end of the bellows is connected to the frame B and is provided with valves 15 and 17, having springs 18 and 20 and closing, respectively, the ports or outlets 19 and 21 from the top and bottom chambers of the bellows. Communicating with the bellows outside of these ports is a pipe 22, secured to the back of the chair substantially in a vertical position. Near the bottom of this pipe is arranged a lateral tube or chamber 24, separated from the tube by means of a perforated partition 26 and closed at its outer end by a screw-cap 28. This tube is adapted to be filled with cotton batting or other absorbent material saturated with any desired perfume, the vapors of the perfume passing through the perforations into the pipe 22. The top of the pipe 22 is provided with the collar or sleeve 23, into which the curved pipe 28 is fitted, and is adapted to slide up and down and to be adjusted in any position laterally or vertically by means of the set-screw 30. The depending end of the pipe-section 28 is provided with a nozzle 32, preferably flaring or funnel-shaped and provided with a tube 34, telescoping with the pipe 28 and adjustably secured thereon by means of a screw 36, whereby the height and direction of the outlet of the pipe may be adjusted at will.

Operation: The attachments being connected as indicated, the chair on being rocked backward lifts the partition-board of the bellows, compressing the air in the upper chamber and forcing it outward through the outlet-pipe and thence downward upon the occupant of the chair, the valves 42 in the bottom board opening at the same time to admit air to the lower compartment of the bellows. As the chair is rocked forward the board is carried downward in the bellows, allowing the valves 40 in the top board to be opened and admit the air to the upper chamber, while its outlet-valve is closed, at the same time expelling the air from the lower compartment or chamber through the outlet-pipe. The air in

its passage through the outlet-pipe carries with it the vapor of the volatile perfume held in the lateral pipe or chamber 24, thus giving to the air as it descends upon the occupant of the chair a pleasing perfume. When it is desired to use the chair without operating the bellows, the pipe-section 28 is detached, the links 10 and 12 disconnected, the bellows collapsed, and the clasp 44 (while not in use held by the hook 38) is slipped upon the expansible end of the bellows, thus holding it in a fixed and collapsed position and connected only to the seat-frame.

I claim—

1. The combination, with the rocking-chair having a stationary frame and a rocking frame supported thereon, of a double bellows having its center board secured to the rocking frame and its top and bottom boards secured to the stationary frame and having suitable inlet and outlet valves for the respective chamber, the outlet-pipe therefor secured in an upright position to the back of the chair, the detachable pipe-section vertically adjustable upon the upper end of said outlet-pipe and depending over the chair-seat, and the nozzle for said pipe-section adjustable lengthwise of said sec-

tion, substantially as and for the purposes set forth.

2. The combination, with the rocking-chair, of the bellows adapted to be operated by the rocking motion of the chair, the vertical pipe 22, provided with the lateral perfume-chamber 24, the removable pipe-section 28, slidably and rotatably adjustable in the top of said outlet-pipe, and the sliding nozzle 34 upon said pipe-section, substantially as described.

3. The combination, with the rocking-chair provided with bellows operated by the rocking motion of the chair and means for charging the air with perfume as it issues from the bellows, of an upright outlet-pipe for said bellows, secured to said chair, a downturned pipe-section connected to said outlet-pipe and rotatably and slidably adjustable thereon, and means for adjusting the length of said pipe-section, substantially as described.

In testimony whereof I have hereunto set my hand this 28th day of April, 1891.

ABRAM P. WATSON.

In presence of—

T. D. MERWIN,
A. MAE WELCH.