

No. 694,426.

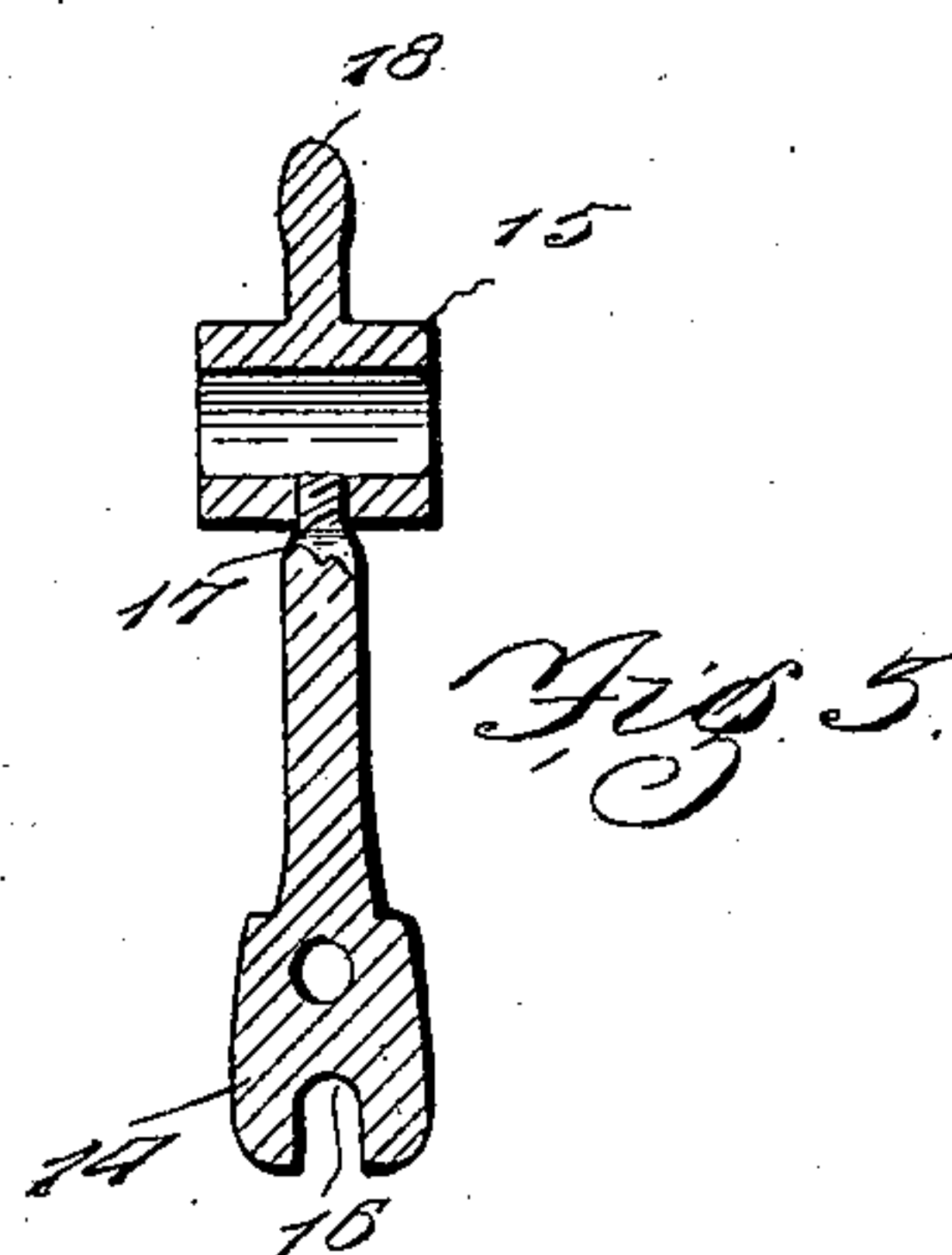
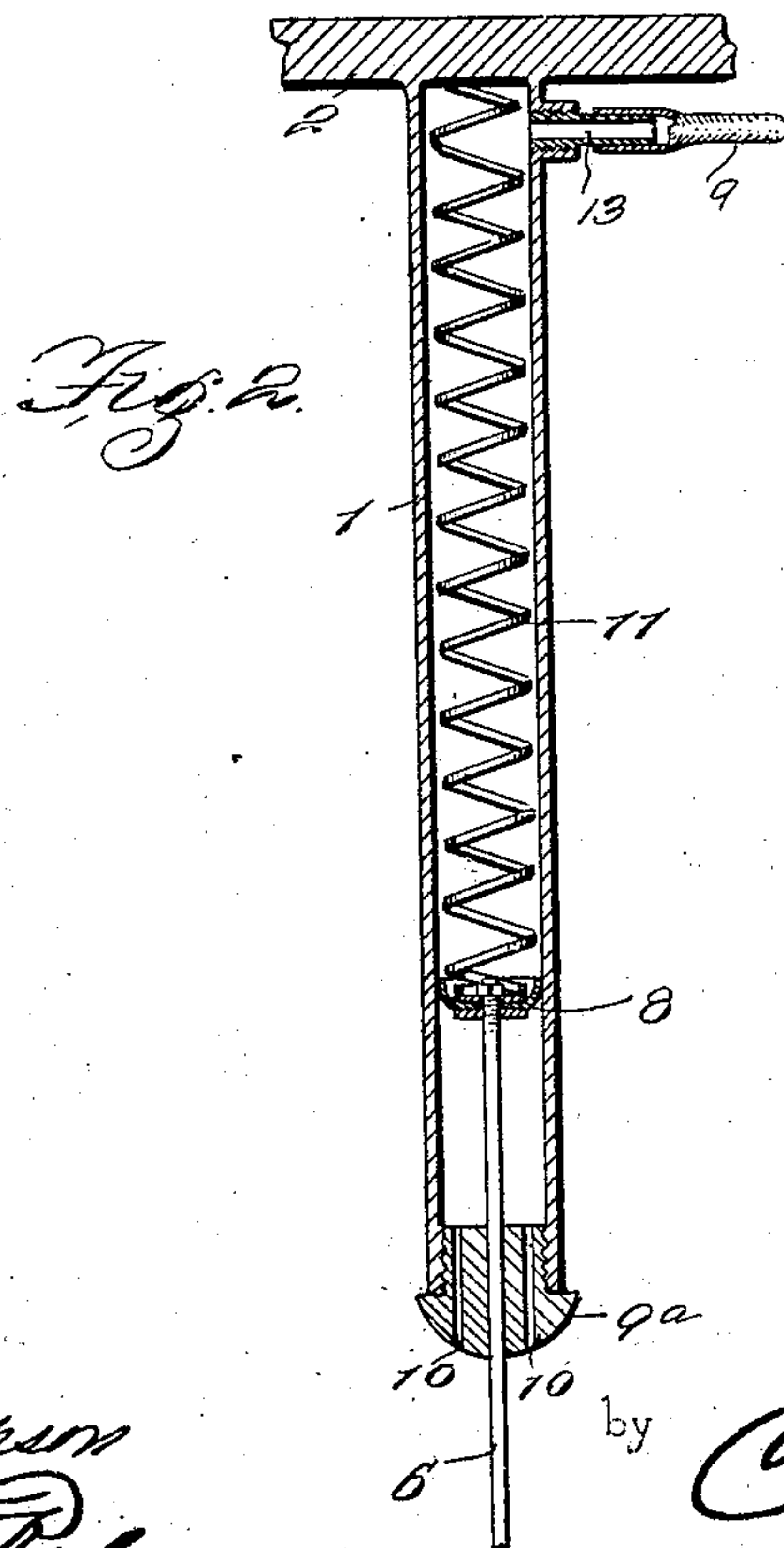
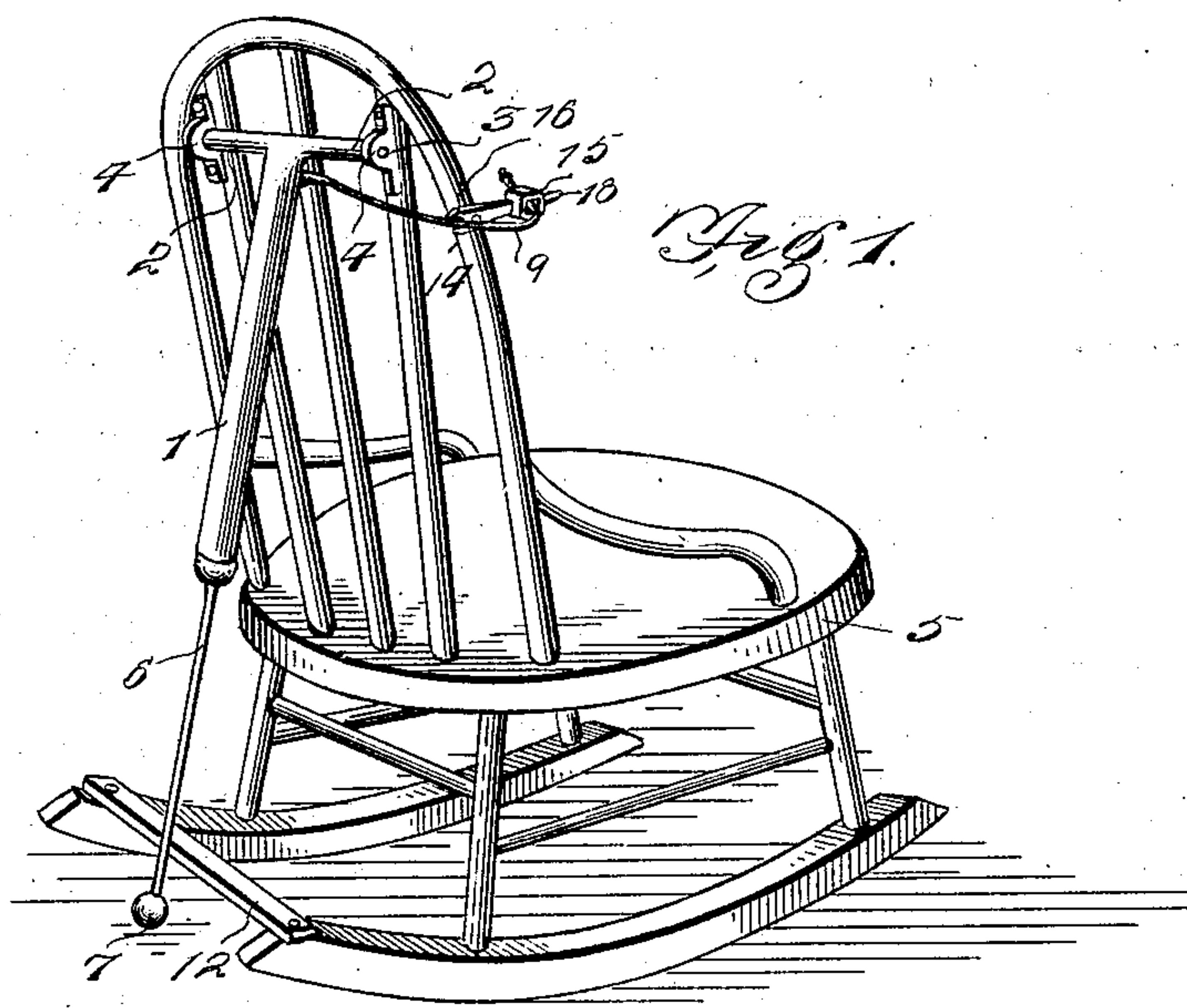
Patented Mar. 4, 1902.

L. M. SARTAIN.

ATTACHMENT FOR CHAIRS, CRADLES, &c.

(Application filed Sept. 25, 1901.)

(No Model.)



Witnesses.
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UNITED STATES PATENT OFFICE.

LOUIS MARTAIN SARTAIN, OF TRACY CITY, TENNESSEE, ASSIGNOR OF TWO-THIRDS TO LIN J. COX AND LEE A. ROBERTSON, OF TRACY CITY, TENNESSEE.

ATTACHMENT FOR CHAIRS, CRADLES, &c.

SPECIFICATION forming part of Letters Patent No. 694,426, dated March 4, 1902.

Application filed September 25, 1901. Serial No. 76,528. (No model.)

To all whom it may concern:

Be it known that I, LOUIS MARTAIN SARTAIN, a citizen of the United States, residing at Tracy City, in the county of Grundy and State of Tennessee, have invented a new and useful Attachment for Chairs, Cradles, &c., of which the following is a specification.

The invention relates to an attachment for rocking-chairs, cradles, and the like for supplying a current of air for cooling the occupant.

The object of the present invention is to provide a simple, inexpensive, and efficient device of great strength and durability, adapted to be readily applied to a rocking-chair, cradle, and the like and capable of being operated by the movement of the part upon which it is mounted, whereby a current of air will be produced for cooling the occupant or operator.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of an attachment constructed in accordance with this invention and shown applied to a rocking-chair. Fig. 2 is a longitudinal sectional view of the cylinder. Fig. 3 is a sectional view illustrating the construction of the adjustable support for the flexible discharge-tube.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates a cylinder provided at its upper end with laterally-extending arms 2, terminating in reduced portions or journals 3, which are arranged in suitable bearings of brackets 4, and the latter are provided with perforated end portions for the reception of screws or other suitable fastening devices for securing the brackets to the chair or other device to which the attachment is to be applied. The bearing-brackets in the accompanying drawings are shown applied to the back of a rocking-chair 5, near the top thereof, and the cylinder extends downward and rearward at an inclination and receives a plunger 6, which

extends outward and downward, as clearly shown in Fig. 1. The lower end of the plunger is provided with a suitable buffer 7, and the upper end has a head 8, arranged within the cylinder and constructed substantially the same as the corresponding part of an ordinary bicycle-pump. This plunger-head is composed of a metal supporting-disk and a leather disk or washer having a peripheral portion for engaging the walls of the cylinder and adapted to permit air to enter the upper portion of the cylinder when the latter moves upward and forward and capable of preventing the return of the air and of forcing the same outward through a discharge pipe or tube 9 when the cylinder is carried downward by the backward movement of the chair. The flexible disk or washer which forms a valve is preferably secured to the plunger-rod by a nut and a metal disk or washer interposed between the nut and the flexible washer. The cylinder is interiorly threaded at its lower end to receive a removable end or head 9^a, which is threaded to engage the screw-threads of the cylinder and which is provided with a shoulder to fit against the lower end of the said cylinder. The end or head 9^a of the cylinder is provided with openings 10 for the admission of air, and the outer face of the end or head is rounded, as shown.

The buffer 7, which rests upon the floor, is preferably in the form of a ball; but it may be constructed of any suitable material and can be of any other desired configuration. A coiled spring 11 is arranged within the cylinder and interposed between the upper end thereof and the plunger, whereby when the rocking-chair moves forward the plunger will be held against the floor or forced outward, so that the parts of the pump formed by the cylinder and the plunger will be in proper position for operation when the rocking-chair again moves backward. The rocking-chair is provided with a transverse supporting-bar 12, secured to the rear ends of the rockers and extending across the space between them and adapted when the rocking-chair moves forward to receive and support the plunger-rod should the latter be lifted from the floor, whereby the pump will be prevented from

swinging inward or forward too far when the rocking-chair moves forward.

The discharge-tube is provided at its rear end with a suitable tip or nipple 13, which is
 5 screwed into a suitable opening of the pump-cylinder, as clearly illustrated in Fig. 2 of the drawings. The front portion of the discharge-tube is arranged in an adjustable support, consisting of an approximately horizontal plate or bar 14 and an adjustable sleeve
 10 15. The plate or bar 14, which is secured by a screw or other suitable fastening device to the back of the chair at one side thereof, extends forward and rearward from the same
 15 and is provided at its rear end with a notch or recess 16 for the reception of the adjacent portion of the discharge-tube. The front end of the bar or plate is provided with threads, and the sleeve 15 is provided with a
 20 threaded opening and screws on the end 17 of the bar or plate and is adapted to be rotated partially to turn the outer end of the discharge-tube to the desired angle for directing the current of air on the occupant of the chair.
 25 The sleeve is disposed transversely of the chair, and the outer end of the discharge-tube, which is supported by the sleeve, is bent inward toward the occupant. The sleeve is provided with a suitable grip or handle 18 to
 30 facilitate adjusting it. The bend of the tube, which is preferably constructed of rubber, retains the intermediate portion in the recess 16 of the rear end of the plate or bar of the adjustable support. The attachment may
 35 be readily applied to rocking-chairs, cradles, and various devices having movable parts capable of operating the air-pump.

It will be seen that the attachment is simple and comparatively inexpensive in construction, that the plunger of the air-pump
 40 is adapted to be reciprocated by the movement of a rocking-chair or cradle, and that it will produce a current of air which may be readily directed upon the occupant or operator. It will also be apparent that the spring
 45 will operate as a cushion and will return the parts of the air-pump to their extended po-

sition when it is free to act and that the supporting-bar of the rocking-chair will prevent the air-pump from swinging inward too far. 50

What I claim is—

1. A device of the class described comprising a hinged air-pump adapted to be mounted on a rocking-chair or the like and provided with a piston arranged to engage the floor, 55 and a discharge tube or pipe extending from the cylinder, substantially as described.

2. A device of the class described comprising brackets adapted to be mounted on a chair or the like and provided with bearings, an 60 air-pump provided at its top with arms journaled on the said brackets, said air-pump being arranged to swing and having a piston arranged to engage the floor, and a discharge pipe or tube, substantially as described. 65

3. A device of the class described, comprising brackets, a hinged air-pump supported by the brackets and having a downwardly-extending plunger provided with a buffer arranged to engage the floor, means for limiting 70 the swing of the air-pump, and a discharge pipe or tube, substantially as described.

4. The combination with a rocking-chair, of an inclined air-pump hinged at its top to the back of the chair and provided with a depending plunger for engaging the floor, a supporting-bar mounted on the chair and limiting 75 the inward swing of the pump, and a discharge tube or pipe, substantially as described.

5. In a device of the class described, the 80 combination with the flexible discharge-tube, of the plate or bar provided at one end with a recess receiving the tube and a transverse sleeve mounted on the other end of the plate or bar and receiving the tube and adapted to 85 be rotated, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

LOUIS MARTAIN SARTAIN.

Witnesses:

A. T. BELL,
 L. J. COX.