

(No Model.)

N. N. CHASE.
TREADLE FAN ATTACHMENT.

No. 545,453.

Patented Sept. 3, 1895.

Fig. 1.

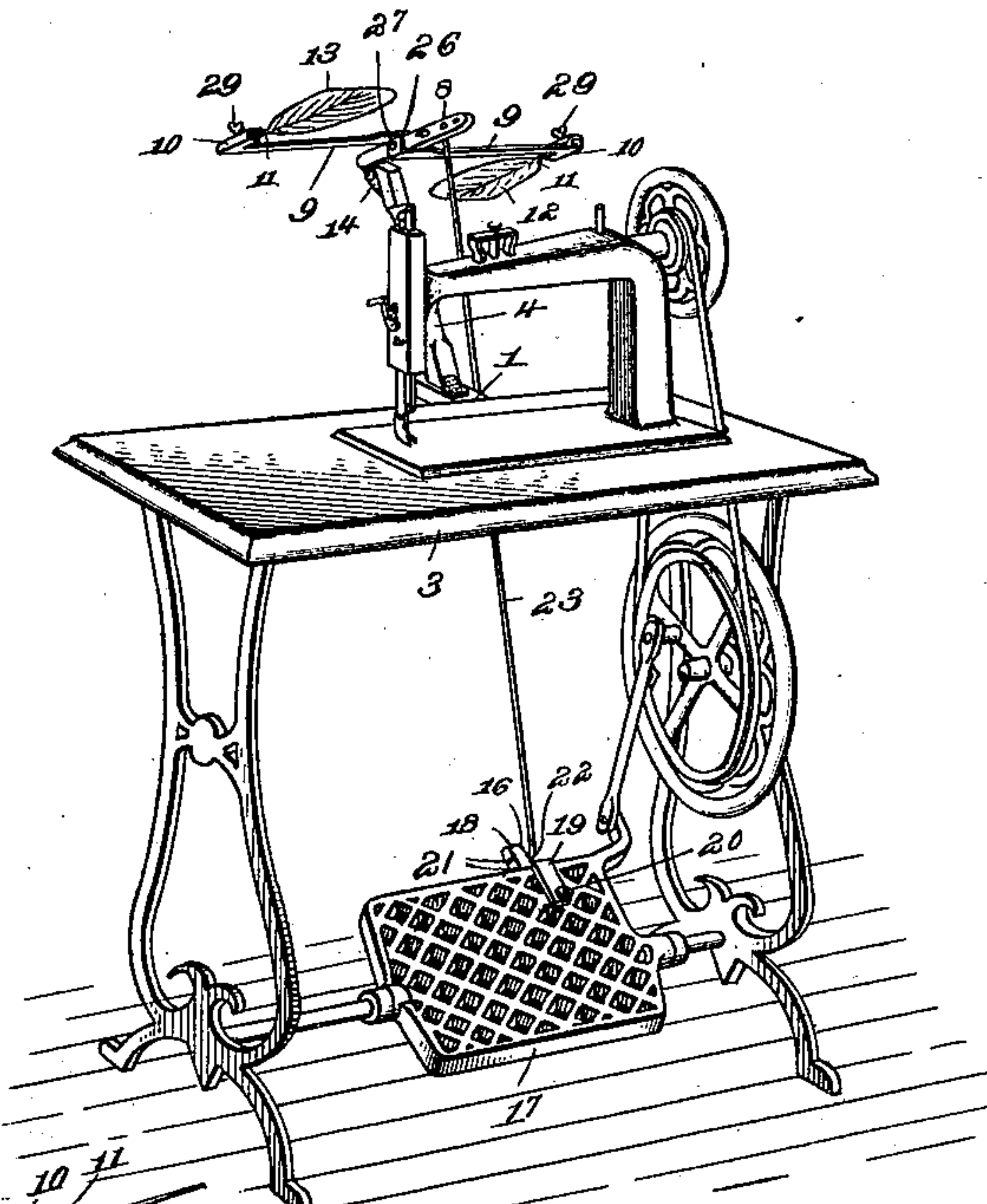


Fig. 2.

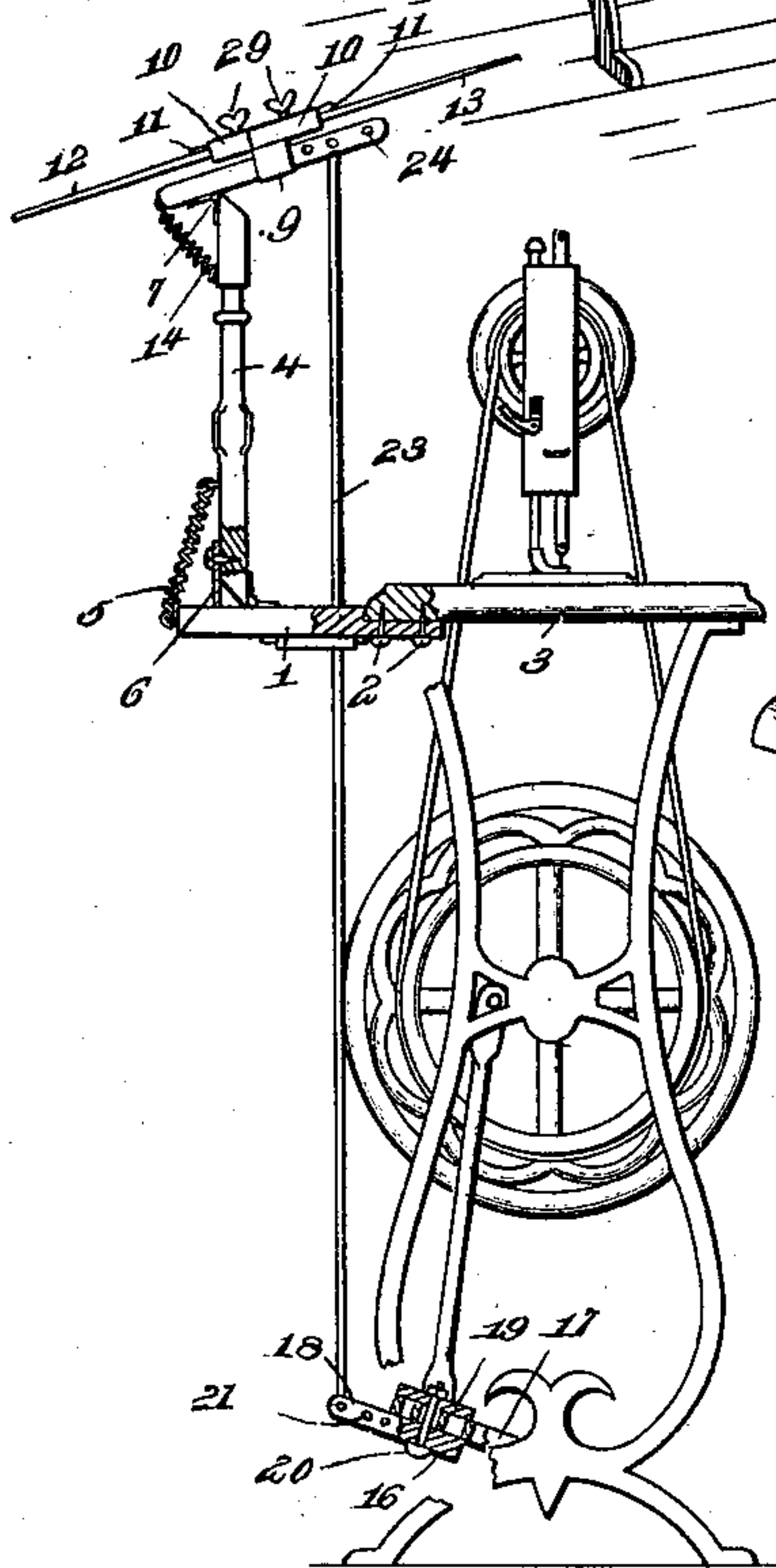


Fig. 3.

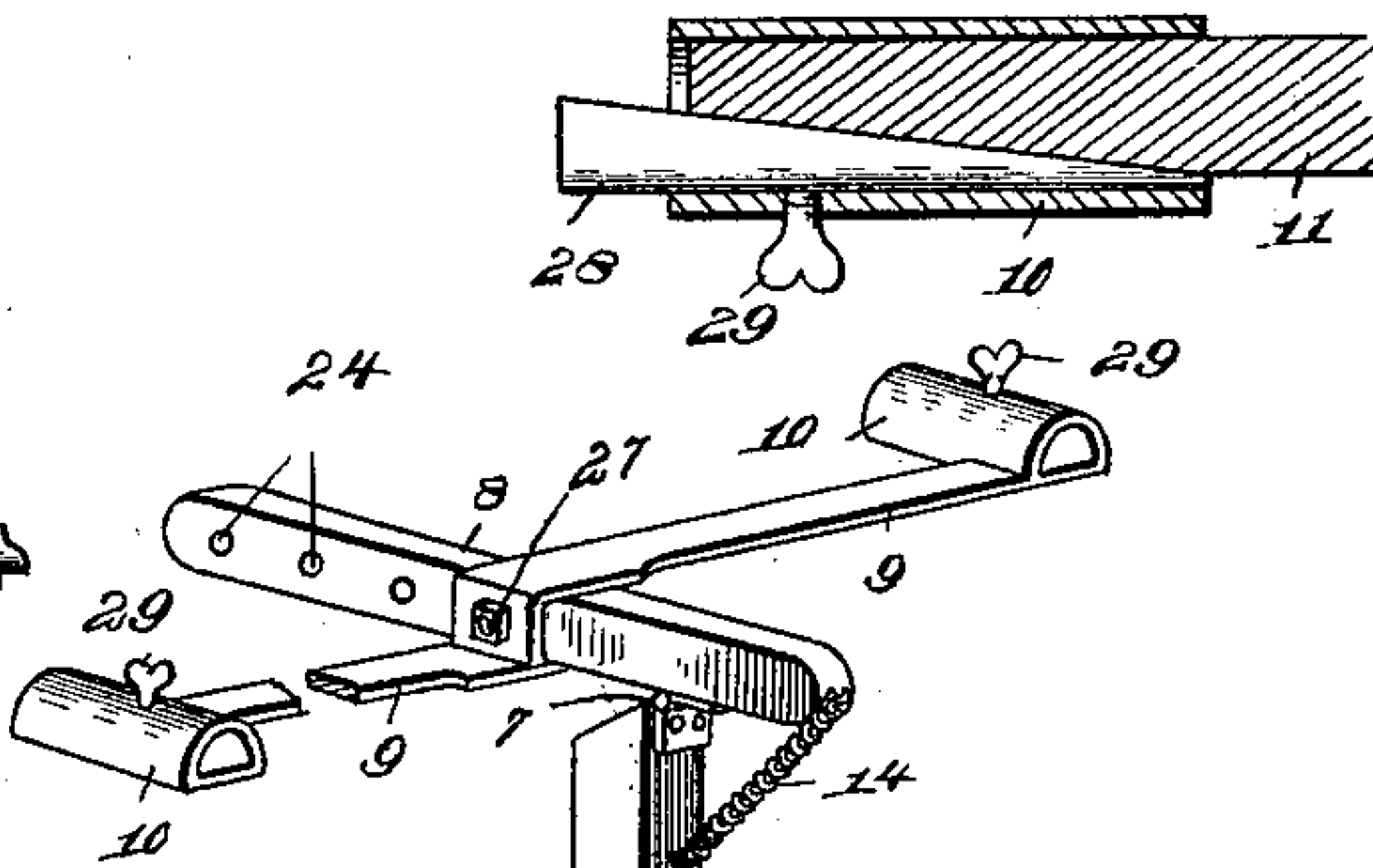
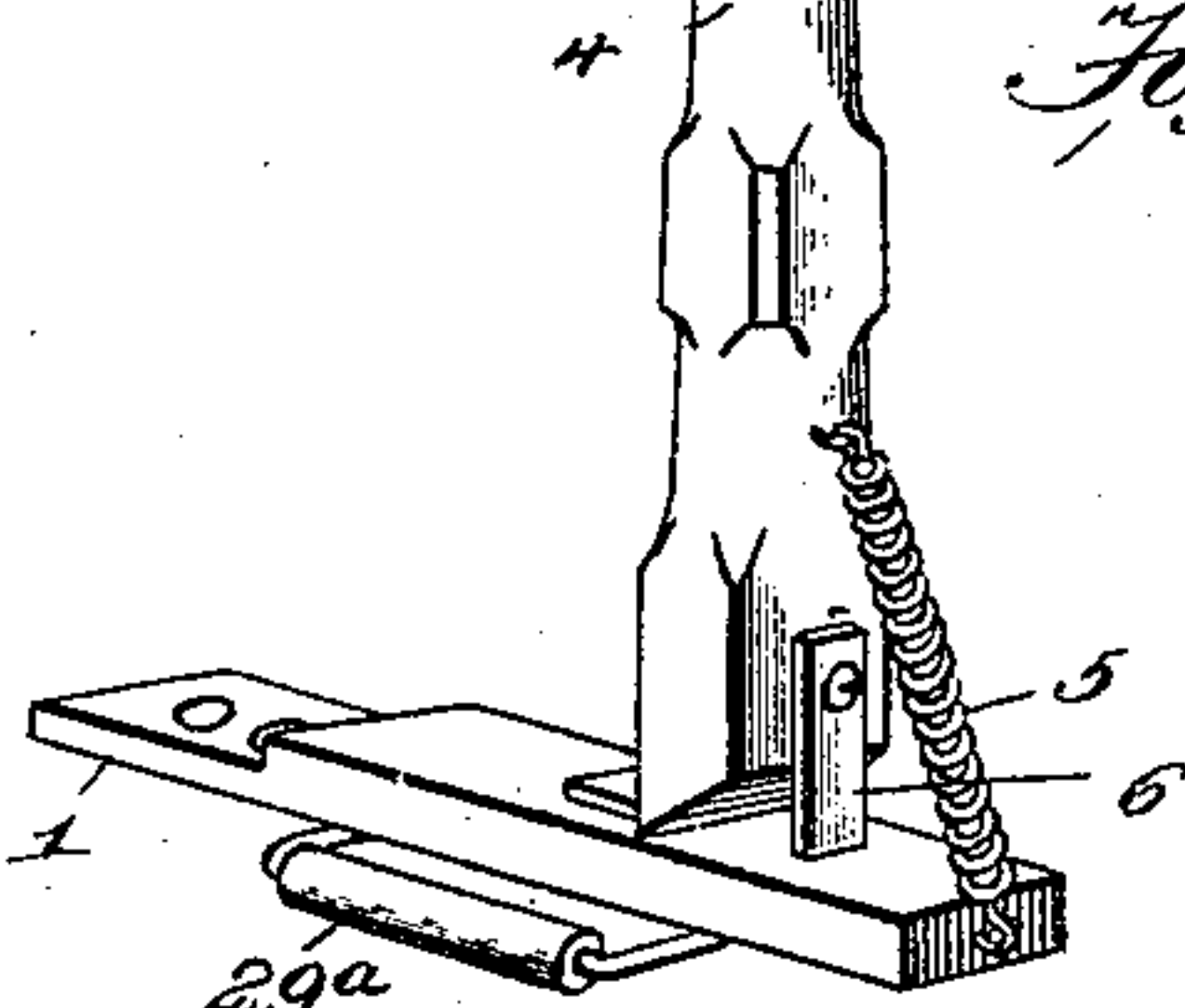


Fig. 4.



Inventor

Witnesses

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UNITED STATES PATENT OFFICE.

NIAL N. CHASE, OF LITCHFIELD, ILLINOIS.

TREADLE FAN ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 545,453, dated September 3, 1895.

Application filed February 14, 1895. Serial No. 538,413. (No model.)

To all whom it may concern:

Be it known that I, NIAL N. CHASE, a citizen of the United States, residing at Litchfield, in the county of Montgomery and State of Illinois, have invented a new and useful Treadle Fan Attachment, of which the following is a specification.

My invention relates to fan attachments adapted to be operated by treadle-power and designed for use in connection with sewing-machines, lathes, desks, tables, &c., the objects in view being to provide a simple, inexpensive, and efficient construction, of which the members may be readily disconnected and assembled; to provide a mechanical fan which may be operated with the minimum expenditure of power, and to provide means whereby the parts of the device may be relatively adjusted to direct a current or currents of air in the desired direction or directions.

Further objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of a fan-motor embodying my invention. Fig. 2 is a side view, partly in section, of the same, showing the device in its folded position. Fig. 3 is a detail sectional view of one of the fan-sockets. Fig. 4 is a detail view of the standard-foot and fan-lever, the parts being folded.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a foot provided with screws 2, which are adapted to be engaged with the under side of a machine-table 3, and hinged or otherwise pivotally connected to a portion of the foot which projects beyond the edge of the table is a standard 4. A spring 5 is attached at its upper end to said standard and at its lower end to the outer end of the foot, a button or stop 6 being pivoted to the lower end of the standard to engage the foot and limit the outward movement of the standard under the tension of the spring when the attachment is not in use.

Connected to the standard at its upper end by means of a hinge 7 is a lever 8, provided at its fulcrum with lateral arms 9, terminating

in sockets 10 for the reception of the handles 11 of the front and rear fans 12 and 13. A spring 14 is employed to move the lever in one direction, the same being connected at one end to the standard and at the other end to the lever.

A clamp 16 is secured to a treadle 17, which, in the construction illustrated, represents a sewing-machine treadle, said clamp consisting of a member 18, which is arranged upon one side of the treadle, and a block 19, which is arranged upon the opposite side of the treadle, the block and the other member of the clamp being connected by a locking-bolt 20. Said member 18 of the clamp is provided with a series of spaced perforations 21, with one of which engages a lateral pin 22 on the lower end of the connecting rod 23, and the lever which is fulcrumed to the upper extremity of the standard is provided with a corresponding series of perforations 24, with one of which engages a lateral pin 25 at the upper end of said connecting-rod, whereby the motion of the treadle is communicated to the pivotal arm. It will be seen that the connecting-rod is capable of adjustment both at its upper and lower ends, to provide for difference in the height of sewing-machines and to secure greater or less throw of the lever.

The arms which carry the fan-sockets are provided at their inner ends with perpendicularly-disposed extensions 26, secured to the lever by means of screws 27, whereby the arm which carries the rear fan may be disconnected from the lever when only a single fan is required, the operation of the other fan not being affected by such removal. The handles or stems of the fans are inserted in the fan-sockets and are secured in place by means of wedges 28, screws 29 being engaged with said wedges and the handles or stems to prevent displacement during operation.

The operation of the improved fan-motor will be readily understood from the foregoing description, and it will be obvious that by swinging the standard forward to or beyond a vertical position the machine to which the motor is attached may be placed close to a wall without disconnecting any of the parts, and that the lid or cover of the machine may be put in place without detaching the motor.

In order to prevent lateral vibration of the

connecting-rod by which motion is communicated by the treadle to the fan-supporting lever, I employ a guide 29^a, which projects laterally from the foot of the attachment, said
5 guide being provided with a leather cover to prevent rattling. The lower end of the standard is beveled, as shown clearly in Fig. 4, to provide for supporting said part at an inclination backward from the machine during
10 operation, in order to provide space between the upper end of the standard and the operating parts of the machine for the fans; but when it is desired to place the machine adjacent to a wall, as when not in use, the button
15 or stop 6 is swung down into the position shown in Figs. 2 and 4, to bear at its extremity against the upper side of the foot, thereby supporting the standard in a vertical position.

Various changes in the form, proportion,
20 and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having described my invention, what I
25 claim is—

1. The combination of a foot provided with

means for attachment to a table, a standard hinged to said foot, a coiled spring secured at one end to said standard, and at the other end to the foot, a button or stop on the stand- 30
ard to limit its movement, a fan-supporting lever fulcrumed upon the standard, and connections between said lever and an operating treadle, substantially as specified.

2. The combination of a foot provided with 35
means for attachment to a table, a standard hinged to said foot, means for yieldingly securing the standard in the desired position with relation to the foot whereby it is adapted to yield forwardly, a lever fulcrumed upon the 40
standard, lateral arms carried by the lever and terminating in sockets adapted to receive fan-stems or handles, and connections between the lever and an operating treadle, substantially as specified. 45

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

NIAL N. CHASE.

Witnesses:

THOMAS E. RICHARDS,
OSCAR D. W. GOOCH.