

No. 754,084.

PATENTED MAR. 8, 1904.

H. L. MCKAIN.

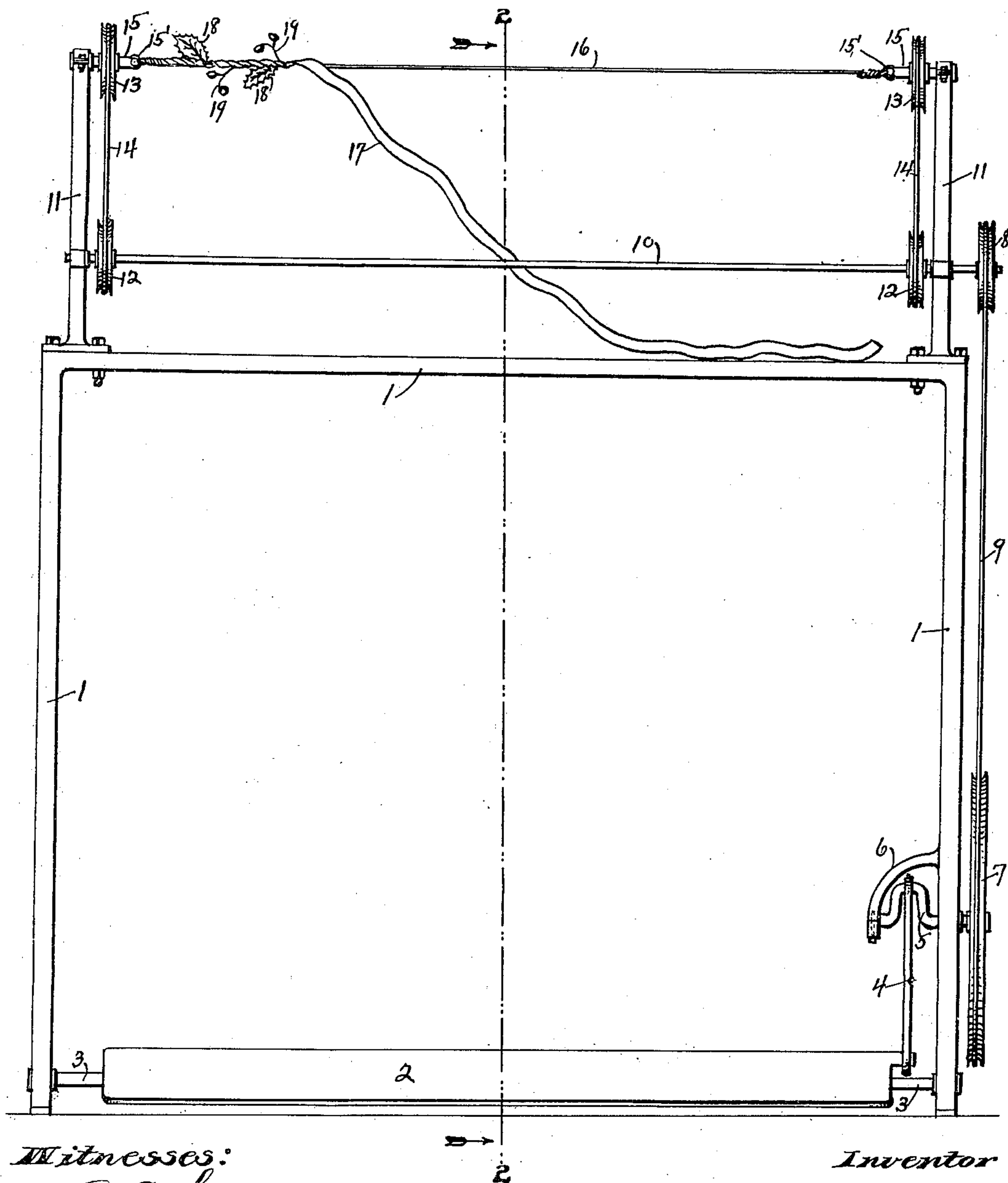
MACHINE FOR MANUFACTURING ARTIFICIAL FLOWERS, VINES, &c.

APPLICATION FILED OCT. 12, 1903.

NO MODEL.

2 SHEETS—SHEET 1.

FIG-1-



Witnesses:

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H. W. Stevenson

Inventor

Harry L. McKain
per J. H. Stevenson
Atty.

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2 SHEETS—SHEET 2.

FIG. 2.

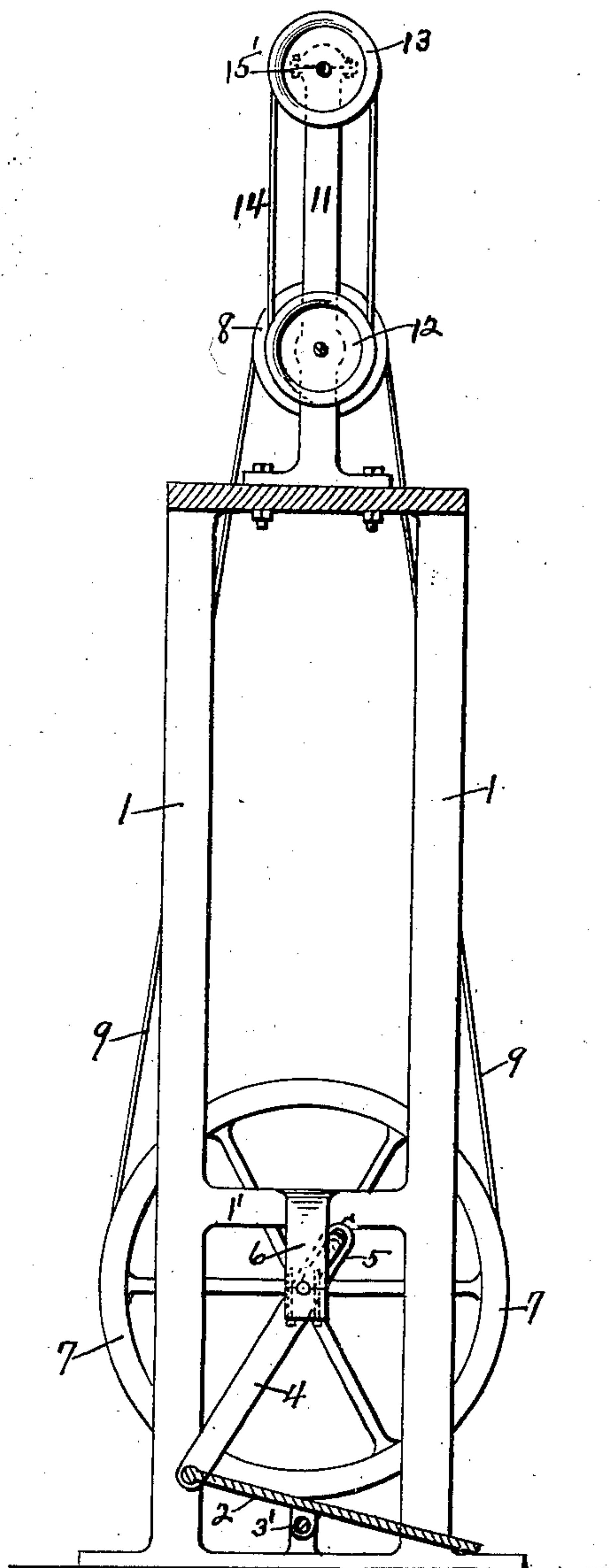


FIG. 3.

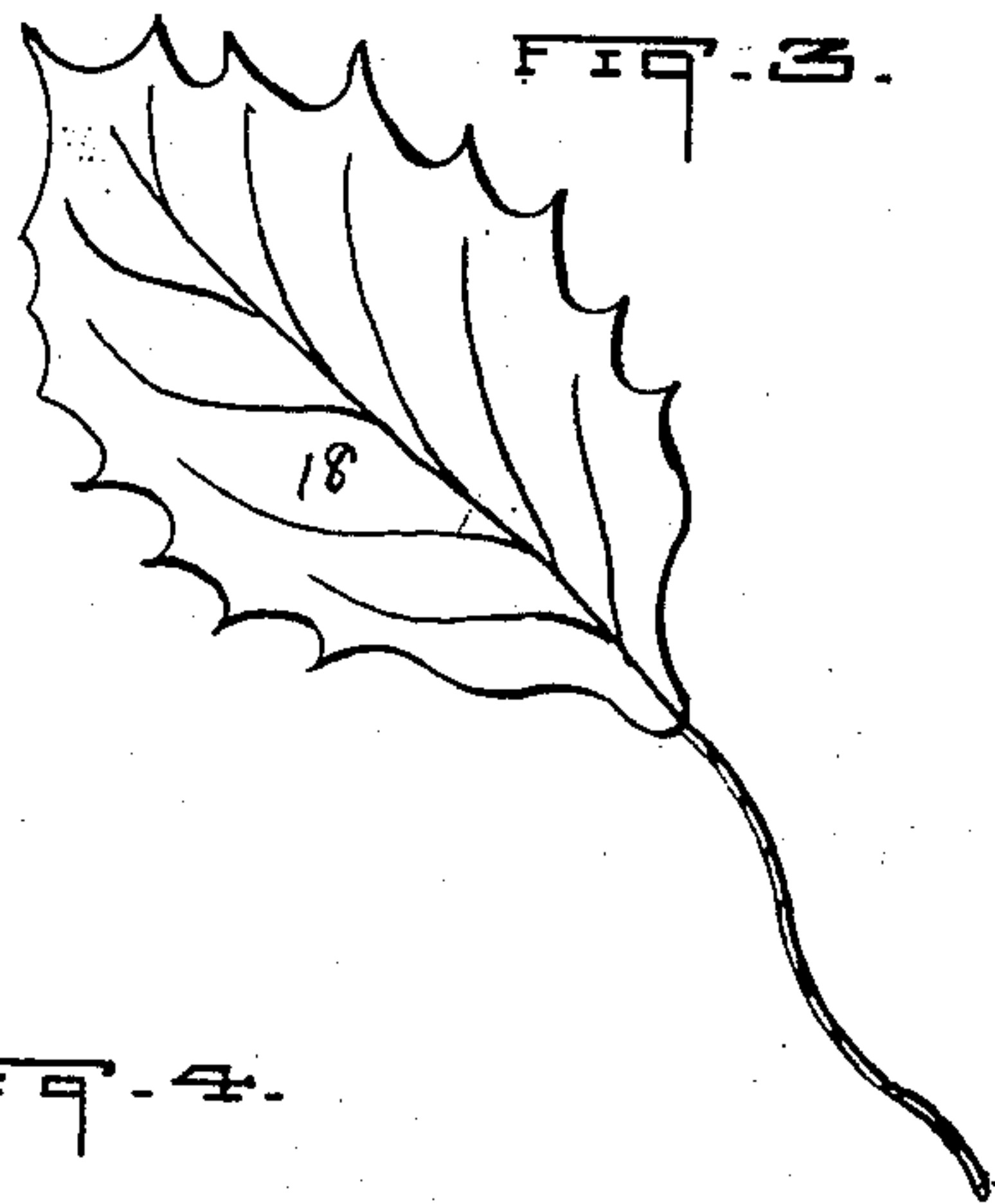


FIG. 4.

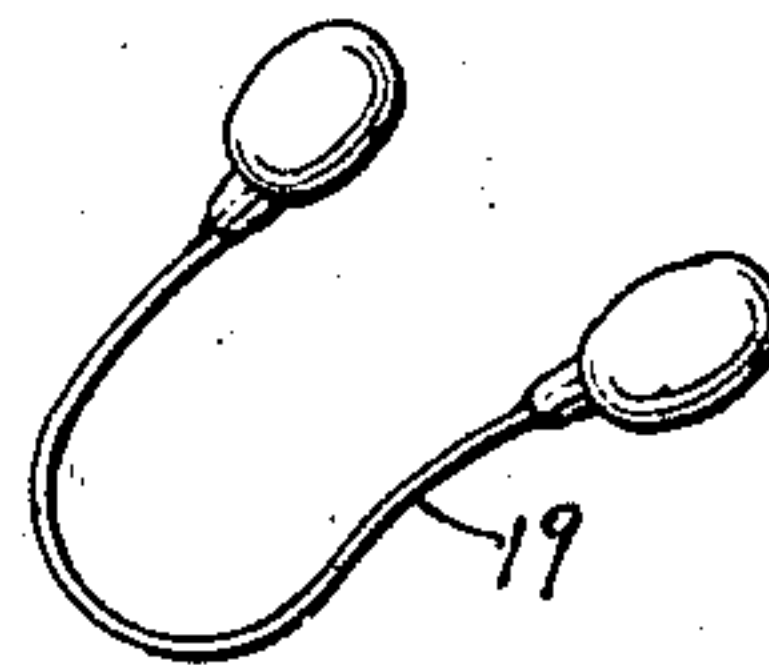
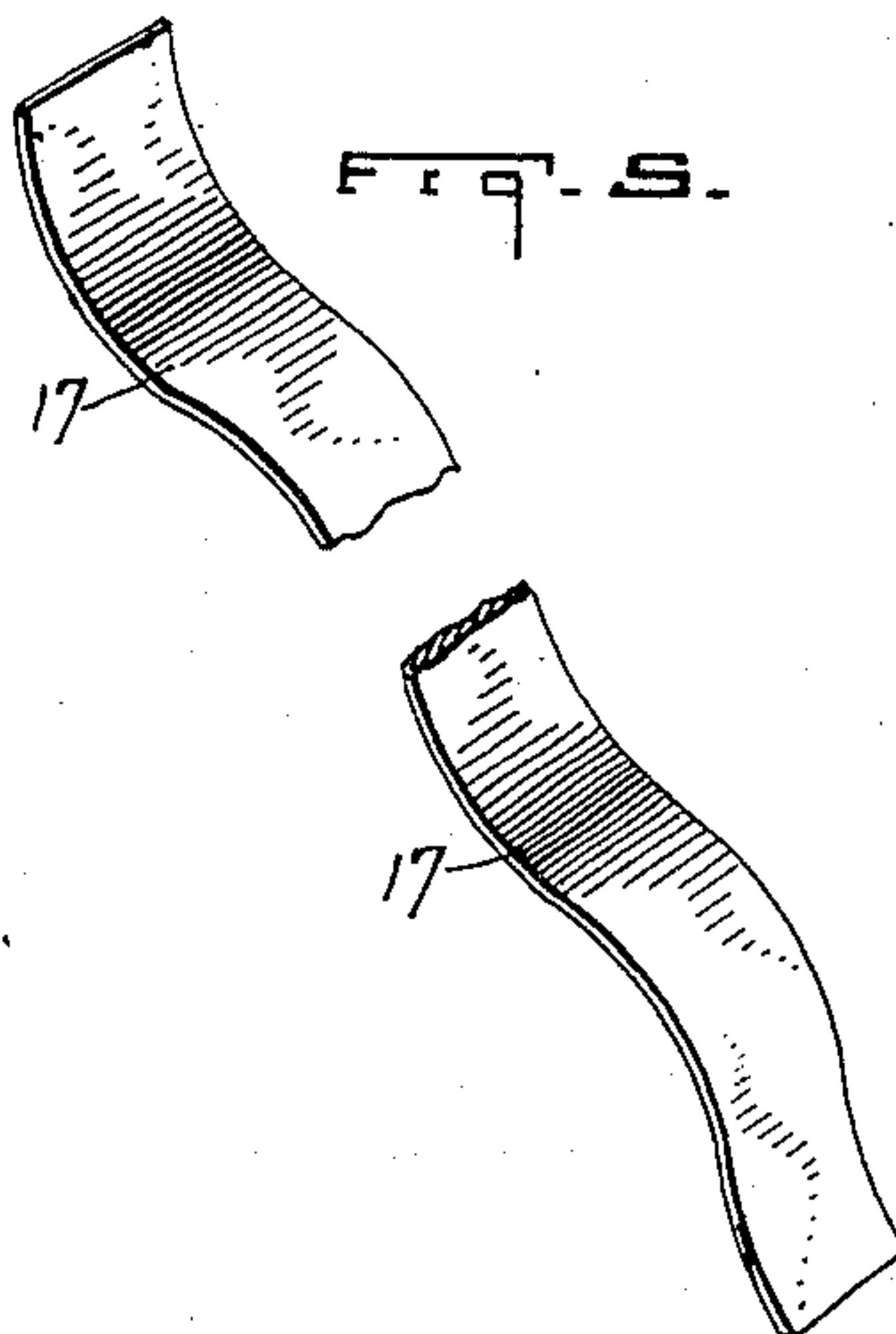


FIG. 5.



Witnesses:

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UNITED STATES PATENT OFFICE.

HARRY L. McKAIN, OF ALLEGHENY, PENNSYLVANIA.

MACHINE FOR MANUFACTURING ARTIFICIAL FLOWERS, VINES, &c.

SPECIFICATION forming part of Letters Patent No. 754,084, dated March 8, 1904.

Application filed October 12, 1903. Serial No. 176,610. (No model.)

To all whom it may concern:

Be it known that I, HARRY L. McKAIN, a citizen of the United States, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Machines for Manufacturing Artificial Flowers, Vines, &c., of which the following is a specification.

My invention relates to a new and useful improvement in a machine for forming artificial flowers which greatly facilitates the speed by which these flowers, vines, &c., are made and makes it possible to materially increase and cheapen the output over hand-made flowers.

In the accompanying drawings, forming a part of this specification, I have illustrated my invention by several views, in which—

Figure 1 is a vertical front elevation of my invention, showing the process employed in forming artificial flowers, vines, &c. Fig. 2 is a vertical side sectional view taken on the line 2 2 of Fig. 1. Fig. 3 is a view of an artificial leaf used in the formation of flowers. Fig. 4 is a sprig of artificial berry or holly. Fig. 5 is the wrapping-tape used in my process.

Numerals of reference designate like parts throughout the several views, in which—

The numeral 1 is the framework or stand, having a tread 2 secured to a rocking rod or shaft 3, the latter shaft being secured in suitable bushings to the lower part of the frame at 3'. Secured to one end of the tread is a rod 4, having its upper end connected with a crank 5, said crank being seated in the upright of the frame 1, and a support 6, secured to the cross-piece 1'.

7 is the power-wheel, mounted on the outer end of the crank-shaft 5.

8 is a pulley-wheel mounted on the outer end of the revolving shaft 10, said wheel 8 being connected to the power-wheel 7 by a belt 9.

12 12 are pulley-wheels mounted on the revolving shaft 10 at either side of the frame, said shaft 10 being seated in the lower part of the upright supports 11, secured to the top of the frame 1.

Secured to the top of the upright supports 11 are the pulley-wheels 13 13 on either side

of the frame and directly over the pulley-wheels 12, being connected to the same by belts 14 14.

15 15 are extensions formed on and at right angles with the wheels 13 13, said extensions ending in a ring 15'.

16 is the forming-wire connected to the wheels 13 13 and temporarily secured to the rings 15'.

17 is the wrapping-tape used in the formation of artificial flowers, vines, &c.

18 is a leaf, and 19 a sprig of berry.

In operation of my device the forming-wire is first passed through the rings 15', formed on the end of the extensions 15, and after being drawn tight is secured by a few twists of the wire. A strip of wrapping-tape is then fastened by means of paste or glue to the forming-wire 16 at one side near the ring portion of the extension 15, preferably the left side. The operator being in front of the machine starts the same going by means of foot motion on the tread 2. This operates the crank 5 and revolves the power-wheel 7, which in turn starts the shaft 10 to revolving and operates the wheels 13 13. As soon as the wheels 13 begin to revolve the wire 16 the operator, being in readiness, continues the operation by the tread movement and at the same time places the leaves, twigs, berries, or such like article as he desires to be wound on the wire at any desired position or interval and with one hand guides the tape along the wire. As the tape winds around the stem of the leaves, &c., the same are held securely on the wire, the operator arranging and placing the leaves, &c., to suit his purpose. In this manner flowers, vines, &c., may be quickly and accurately formed, the process continuing until the wire is filled. When completed, the ends of the wire 16 are released from the fastenings 15'. After the flowers have been formed on the revolving wire, as aforesaid, they may be bunched by the same process as is employed in the manufacture.

Having thus fully shown and described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a machine for the manufacture of artificial flowers, the combination with a frame, of

a driving means, a pair of standards mounted on the top of the frame, a shaft carried thereby having pulleys mounted on the same at each end thereof means connecting said shaft
5 with the driving means, a pair of pulleys mounted at the upper ends of the standards above and opposite the pulleys on the shaft, means operatively connecting the same with the shaft-pulleys, and means formed integral
10 with said pair of pulleys having openings

therein to receive a removable flower-supporting member, substantially as described.

In testimony whereof I affix my signature in presence of witnesses.

HARRY L. McKAIN.

Witnesses:

D. McKELVEY,
GEO. J. SWEITZER,
W. J. McKAIN.