

No. 775,985.

PATENTED NOV. 29, 1904.

H. L. McKAIN.

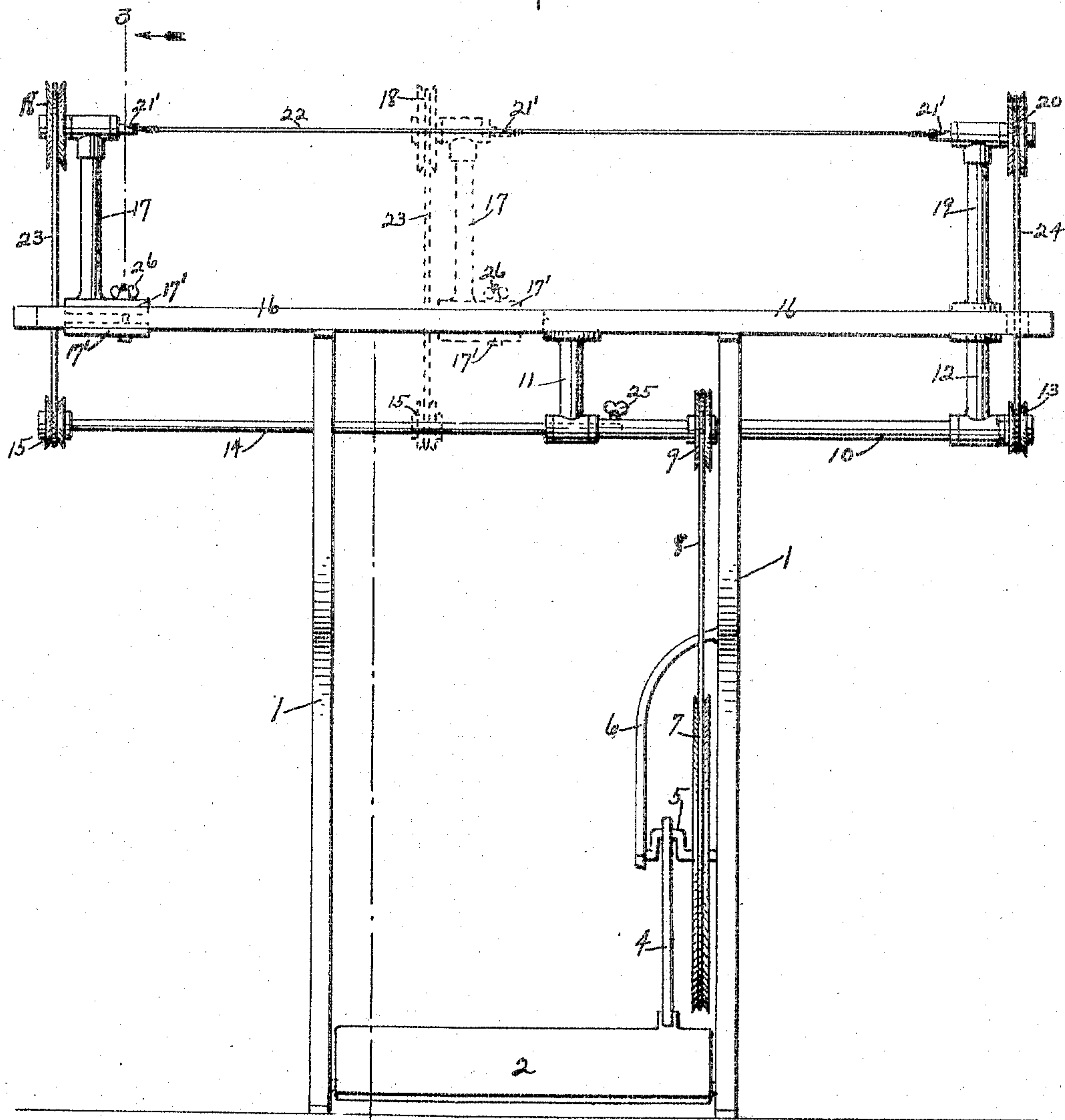
MACHINE FOR MANUFACTURING ARTIFICIAL FLOWERS, VINES, &c.

APPLICATION FILED MAR. 18, 1904.

NO MODEL.

2 SHEETS—SHEET 1.

FIG. 1.



WITNESSES:

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INVENTOR

*Harry L. McKain*  
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2 SHEETS—SHEET 2.

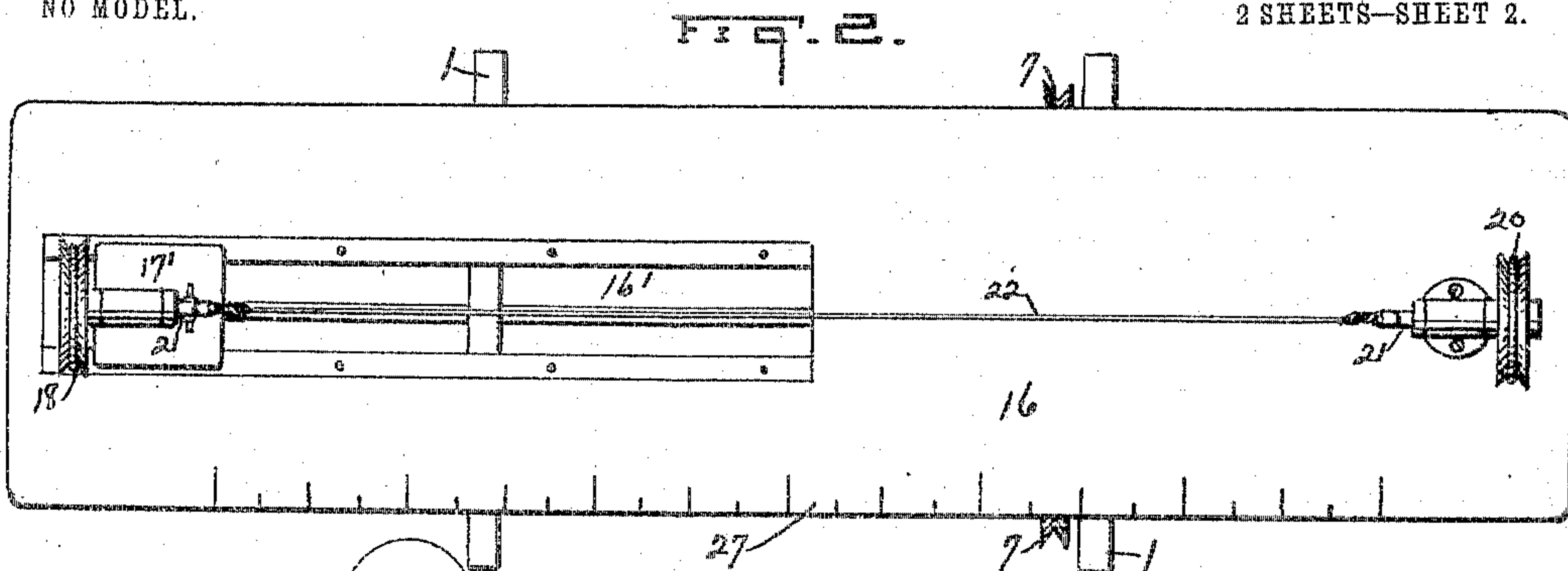


Fig. 3.

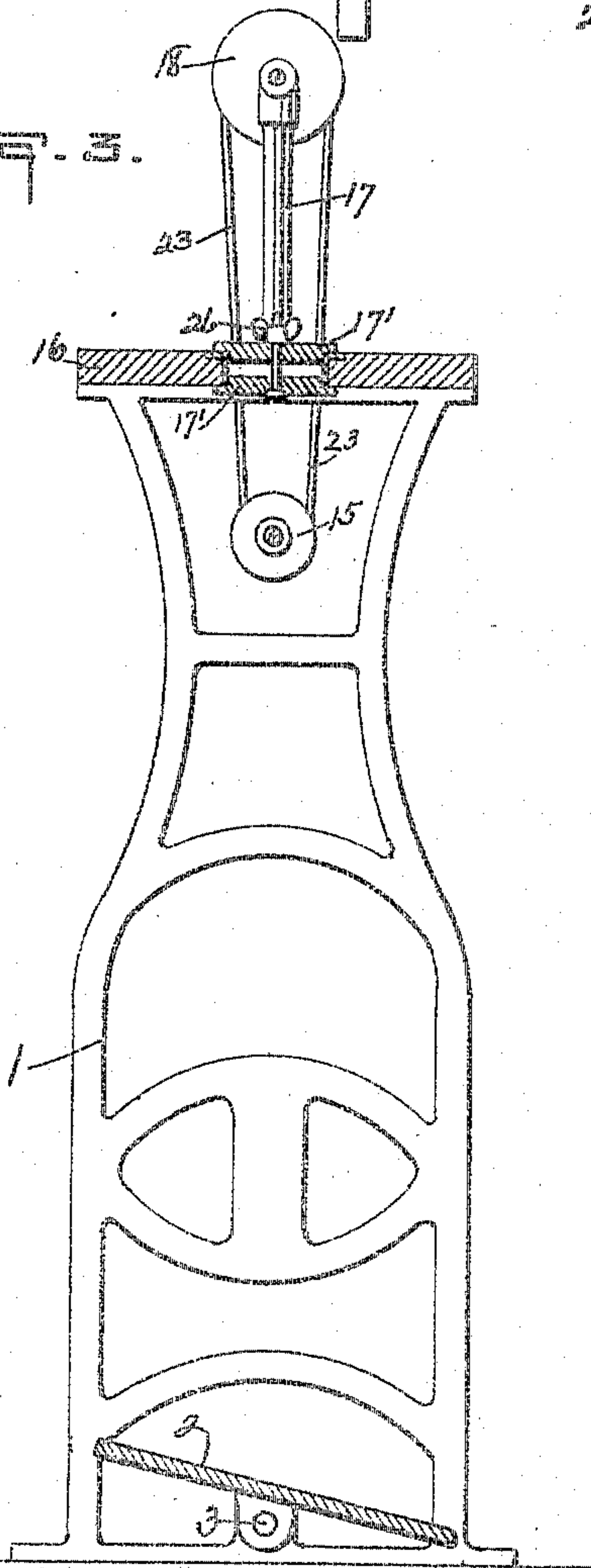


Fig. 4.

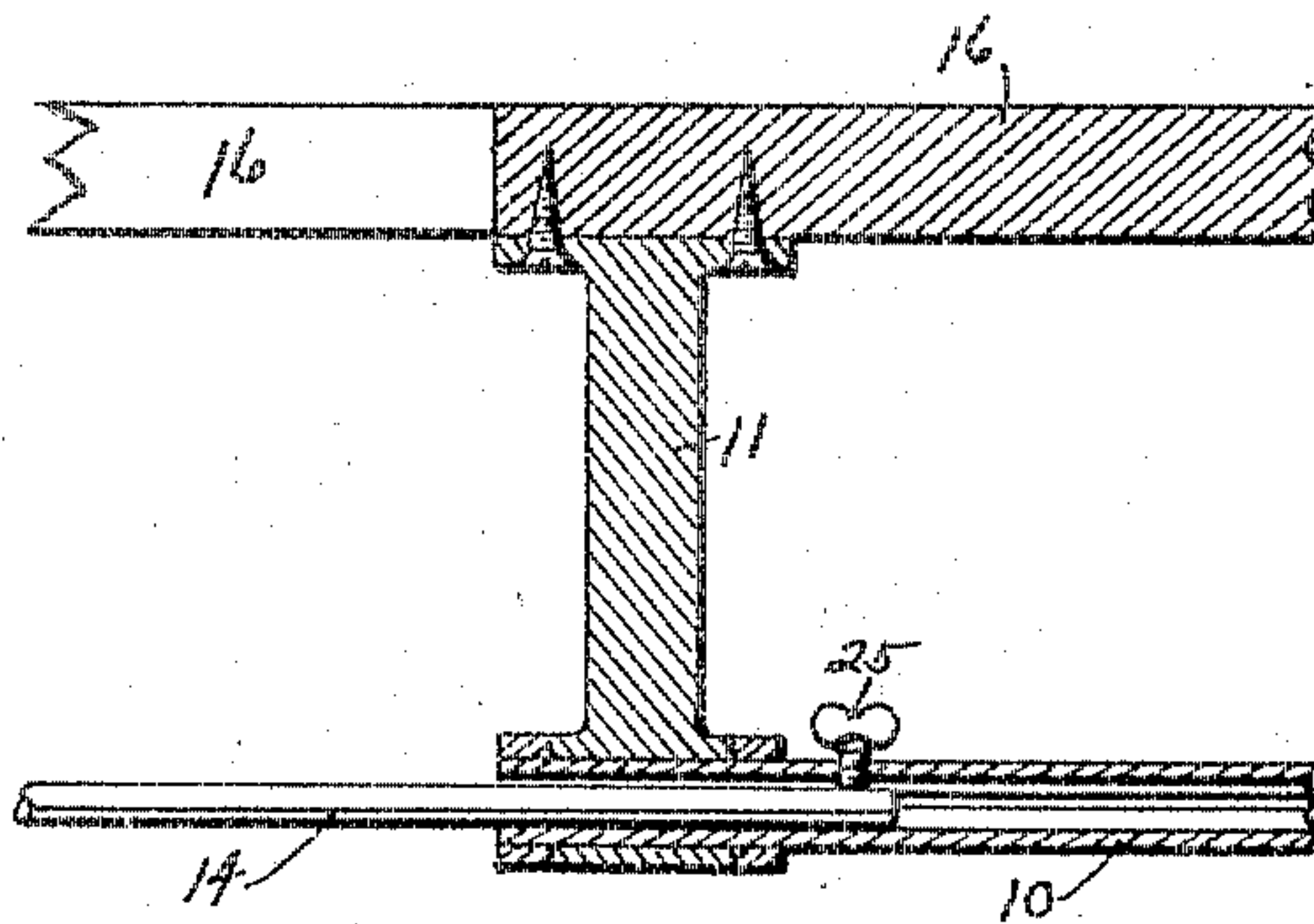
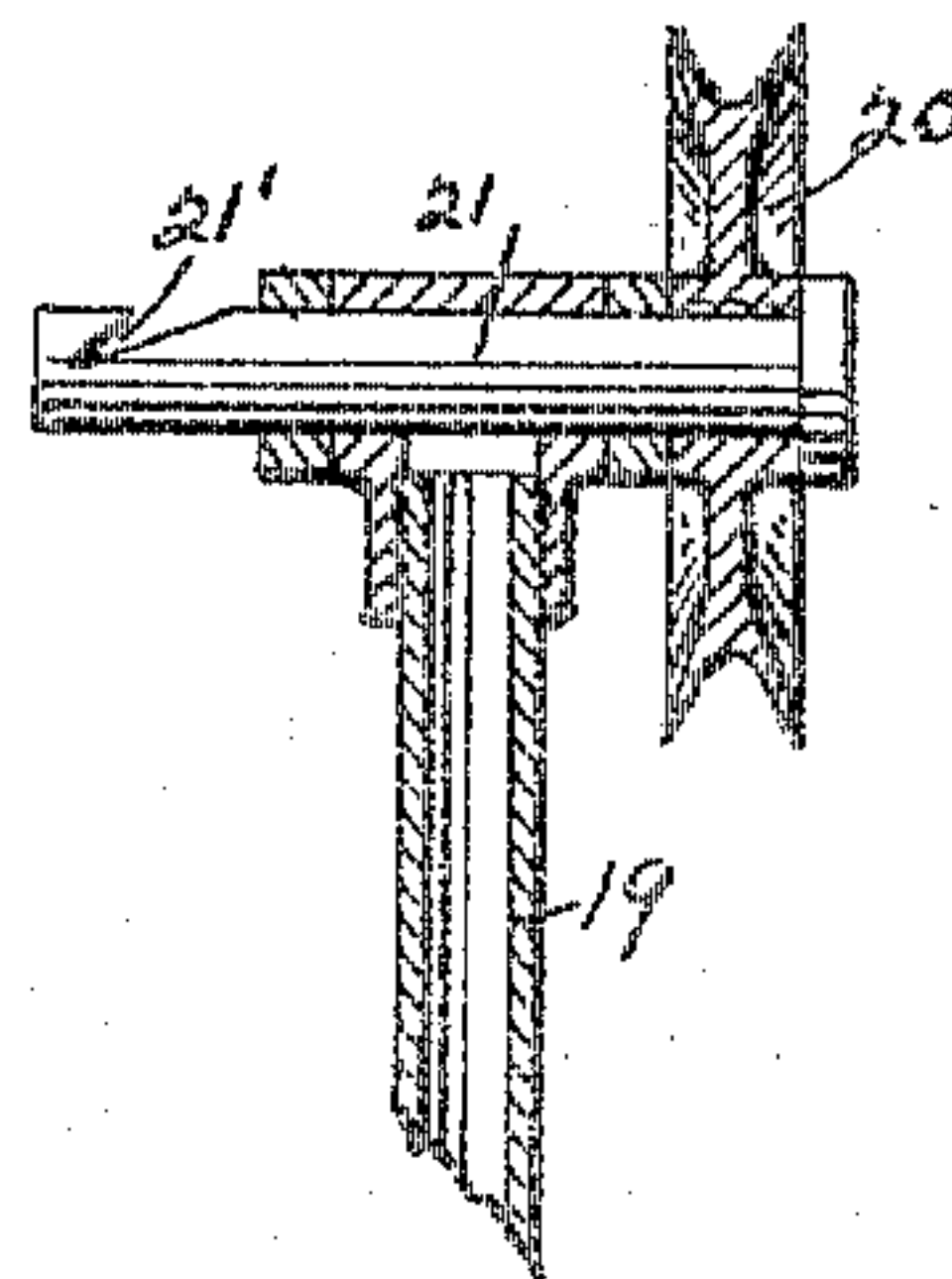


Fig. 5.



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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. 775,985, dated November 29, 1904.

Application filed March 18, 1904. Serial No. 198,866. (No model.)

*To all whom it may concern:*

Be it known that I, HARRY L. McKAIN, a citizen of the United States, residing in 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.; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to a new and useful improvement in a machine for forming artificial flowers, vines, &c., which 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 front elevation of the machine, showing adjustable means for holding the wire. Fig. 2 is a top plan view of the table portion of my machine. Fig. 3 is a side elevation of my machine, taken on the line 3 3 of Fig. 1. Fig. 4 is a sectional view of the telescoping arrangement and the means of securing same to the operating-table. Fig. 5 is a sectional view of the wire-rotating pulley and integral extension as seated in the standard.

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. 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.

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

8 is a belt connecting the power-wheel 7 with the pulley 9, the latter being mounted on a hollow revolving shaft 10, seated in the supports 11 and 12. The support 11 is secured to the under side of the table near the center, and the support 12 also to the under side of the table near the right-hand edge.

13 is a pulley mounted on the outer right-hand end of the revolving shaft 10.

14 is an adjustable shaft arranged to telescope in the hollow revolving shaft 10, being secured in position by the screw 25.

15 is a pulley mounted on the outer left-hand end of the adjustable shaft 14.

16 is the operating-table, having a measuring device 27 arranged thereon and a slotted portion 16' formed therein to permit the standard 17, seated on the movable plate 17' and supporting the pulley 18, carrying the belt 23, being slid back and forth across the table, as desired. The belt 23 is connected with the pulley 15 on the under side of the table.

19 is a standard secured to the top of the table 16 at the right-hand side thereof and supports the pulley 20, the latter being connected with the pulley 13 on the under side of the table by a belt 24.

21 21 are integral extensions projecting at right angles from the inner faces of the pulleys 18 and 20, each of said extensions having a hook or angled slot 21' formed in the ends thereof to receive the forming-wire 22.

26 is a screw connecting the upper and lower sections of the plate 17.

The main feature of my improved machine is in the fact that I can easily and quickly regulate the distance between the supporting members carrying the forming-wire when it is necessary to lengthen or shorten the same for various kinds of flowers, vines, &c., thus reducing to a minimum the waste of wire. By placing part of the operating device on the under side of the table, as herein set forth, it leaves the operator less hampered for carrying on the work of forming the flowers, &c. The measuring device attached to the top of the operating-table serves as a guide for regulating the length of the forming-wire.

In operation of my improved machine the forming-wire is first inserted in the angled groove formed near the end of the extensions 21, operated by the pulleys 18 and 20, and by the operator starting the machine and alternately holding the ends of the wire the same will become securely fastened in position.

I hereby make reference to my former patent, numbered 754,084, issued March 8, 1904,



as covering further operative features of my invention in the formation of artificial flowers, vines, &c. It is obvious that natural flowers may also be utilized on my machine in the formation of vines, bouquets, &c.

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

1. In a machine for forming artificial flowers, vines, &c., the combination with a frame, of a driving means; an operating-table, a pair of standards mounted on the top of the operating-table having pulleys seated therein and means formed integral with said pulleys for attaching a removable flower-supporting member; means for adjusting the standard at the left-hand side of the table said table having a slot formed therein to receive the same, a telescoping rod, a hollow revolving shaft seated in supports secured to the under side of the operating-table adapted to receive the said rod; pulleys mounted on said revolving shaft and telescoping rod; means operatively

connecting the same with the driving means and wire-rotating pulleys; and a measuring device attached to the operating-table; substantially as described and shown.

2. In a machine of the type set forth, a frame, a slotted table, driving means, standards having pulleys mounted thereon, means carried by the pulleys to receive a removable flower-supporting member, means for longitudinally adjusting one of said standards in the slot of the table, a hollow shaft mounted beneath the table, a telescoping member entering the same, means operatively connecting the member and shaft to the pulleys on the standards, and means for measuring carried on the table, substantially as described.

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

HARRY L. McKAIN.

Witnesses:

S. P. BRICKER,  
W. I. McKAIN.