

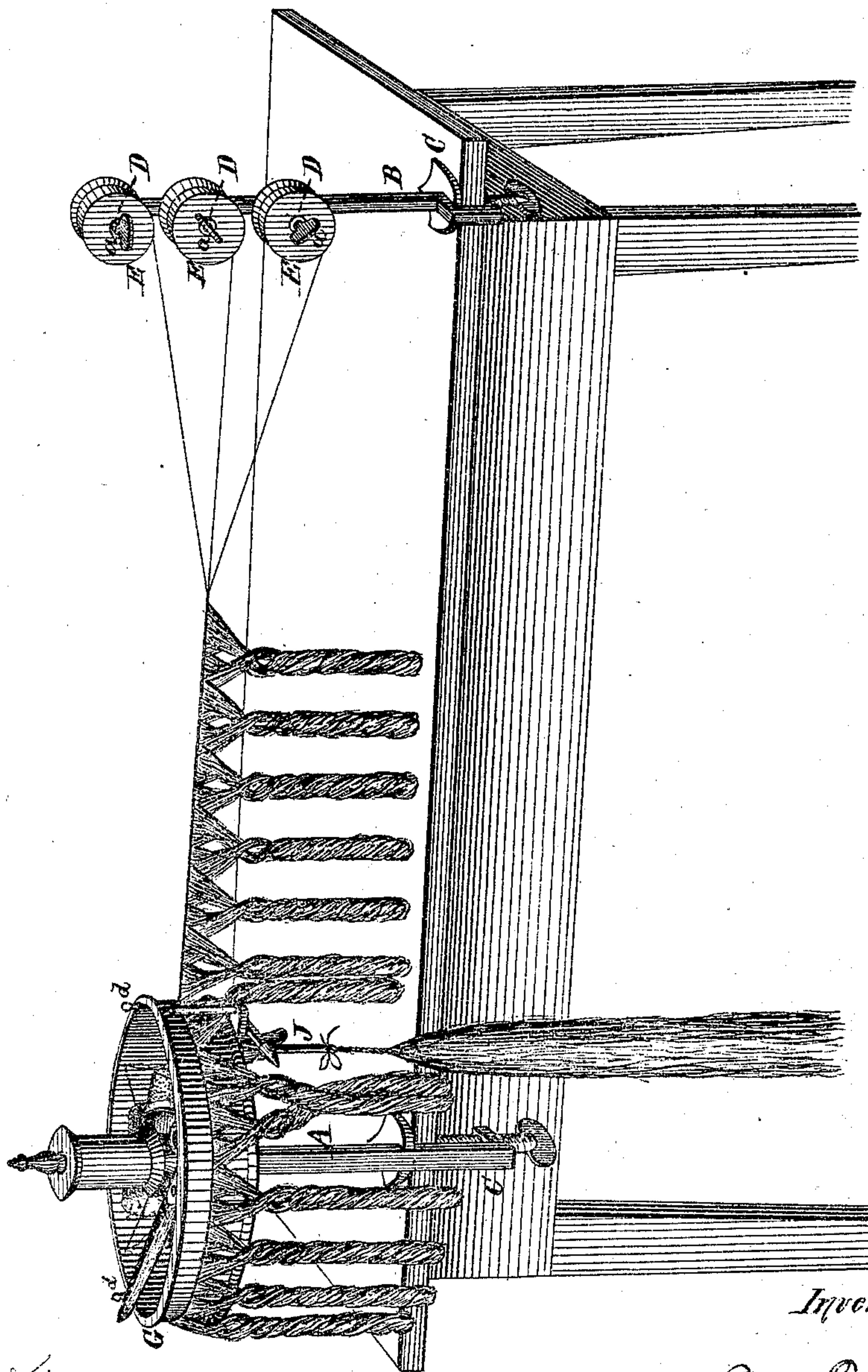
NARCISSE DEMONGEOT.

Hair Weaving and Mounting Apparatus.

No. 121,997.

Patented Dec. 19, 1871.

Fig 1



Witnesses.

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Fig. 2.

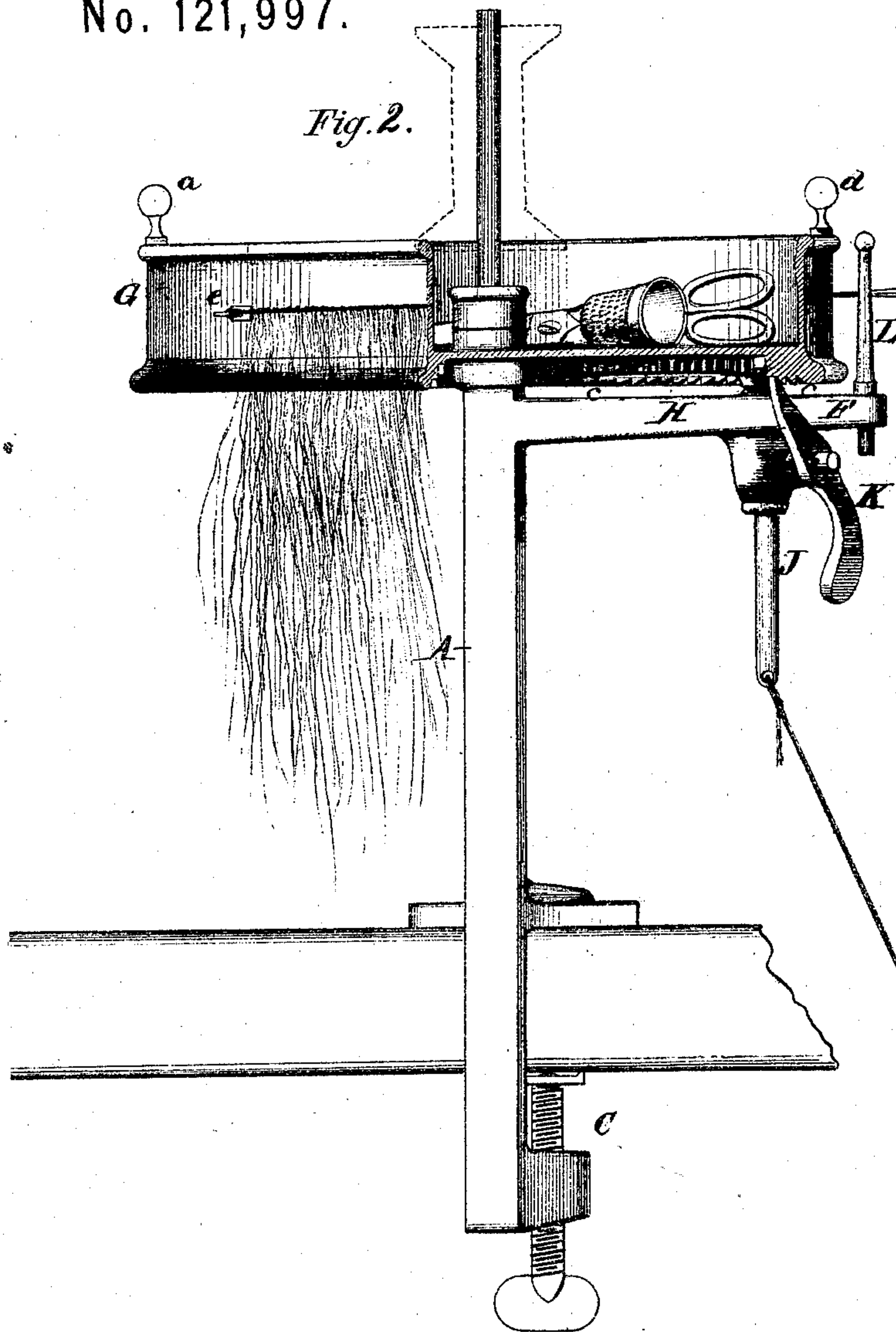


Fig. 3.

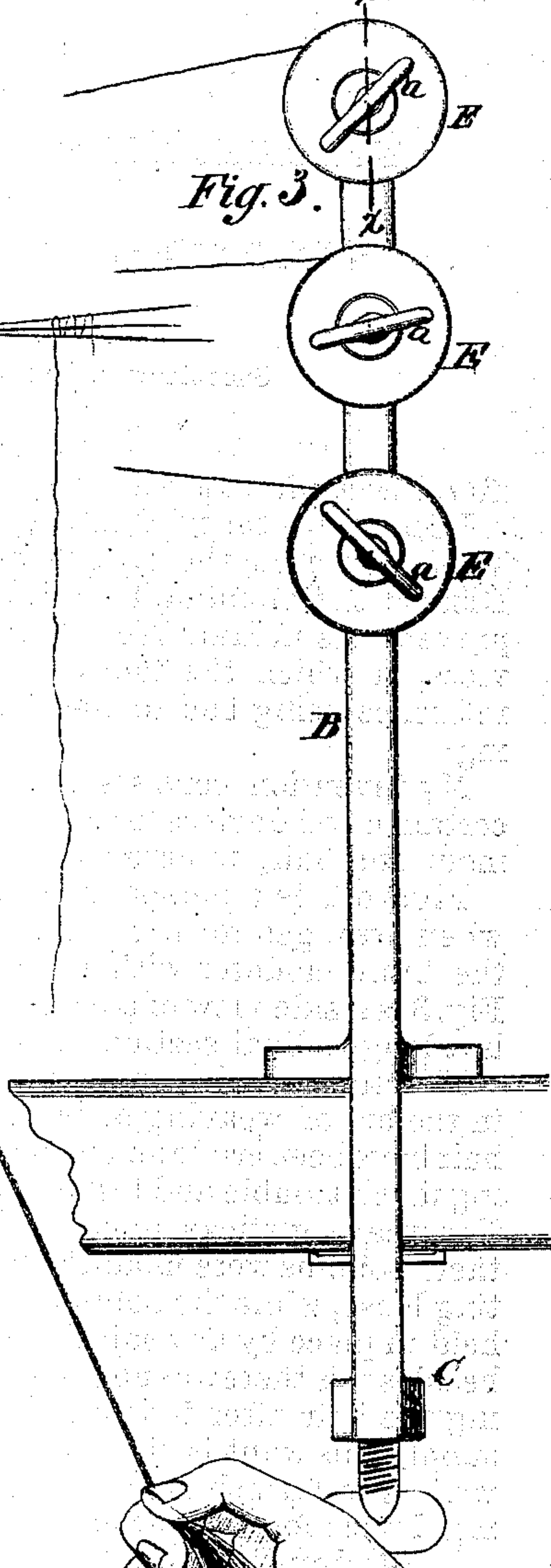
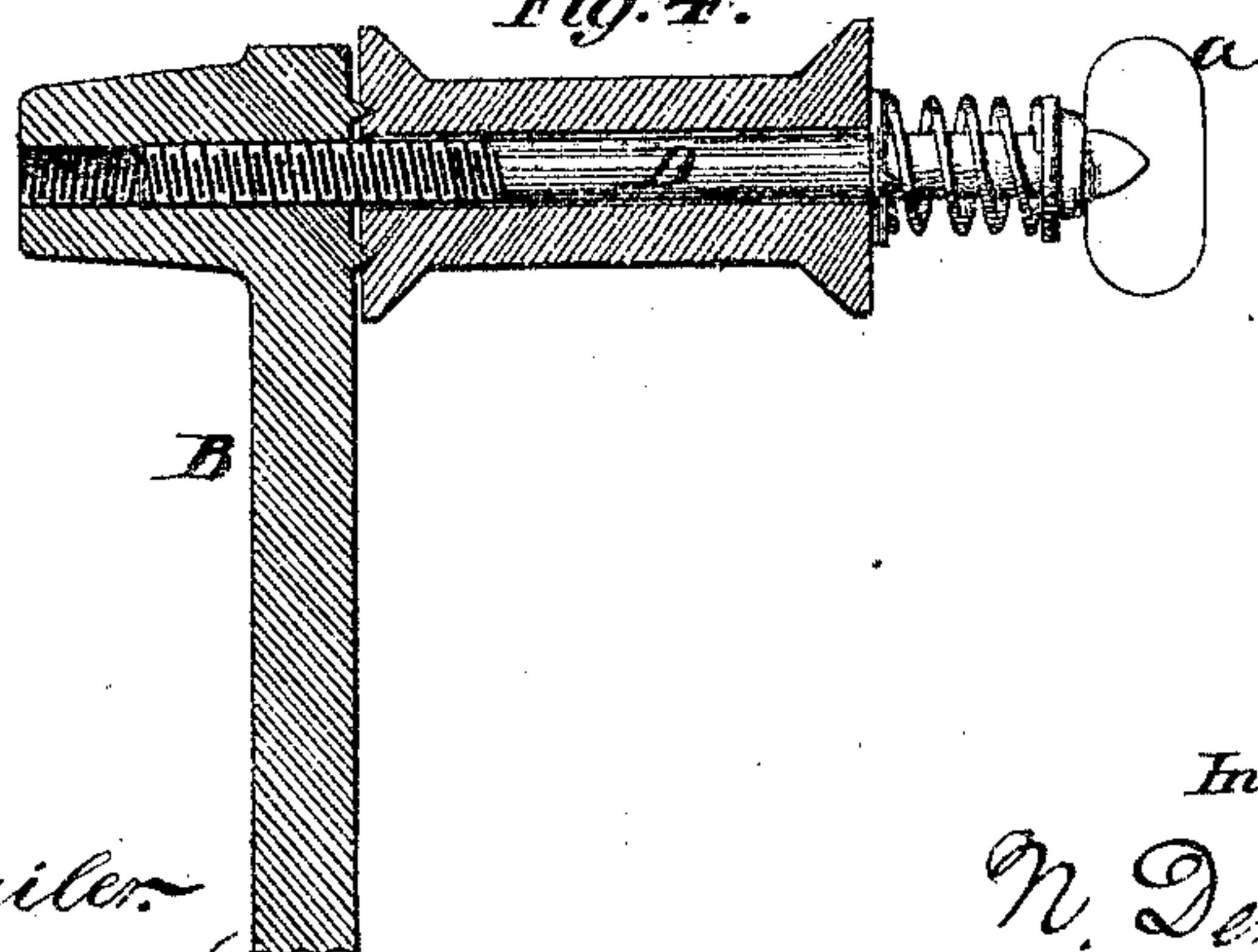


Fig. 4.



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# UNITED STATES PATENT OFFICE.

NARCISSE DEMONGEOT, OF WASHINGTON, DISTRICT OF COLUMBIA.

## IMPROVEMENT IN HAIR WEAVING AND MOUNTING APPARATUS.

Specification forming part of Letters Patent No. 121,997, dated December 19, 1871.

*To all whom it may concern:*

Be it known that I, NARCISSE DEMONGEOT, of Washington, in the county of Washington and District of Columbia, have invented certain Improvements in Hair Weaving and Mounting Devices, of which the following is a specification, reference being had to the accompanying drawing:

My invention consists in the construction of certain novel devices for weaving or braiding and mounting hair, as hereinafter explained.

Figure 1 is a perspective view of my devices when arranged for use. Fig. 2 is a side view of the braid-mounter with a portion broken away. Fig. 3 is a side view of a part detached, and Fig. 4 is a longitudinal section on the line *xx* of Fig. 3.

Heretofore the instruments or devices employed in the art of weaving or braiding and mounting hair have been crude and inconvenient, often causing much trouble and loss of time to the operator. The weaving sticks upon which the spindles with their bobbins were mounted were constantly getting loose, while the bobbins themselves were not held in place by any suitable tension device; and besides this there was no efficient device for mounting the hair after it was braided or woven. To supply this want is the object of my invention, as well as to furnish a cheap, useful, and labor-saving device for persons engaged in this art.

In the drawing, A and B are the weaving sticks, made of metal or other suitable material, and provided at their lower ends with a screw-clamp, C, for attaching them to the table of the operator, as clearly shown in Figs. 1, 2, and 3. The weaving-stick B is provided with spindles D, having a thumb-piece, *a*, on their outer ends and a screw-thread on their inner ends, so that they may be attached to the weaving-stick, as clearly shown in Fig. 4. On these spindles bobbins E are mounted, when they are prevented from turning when desired by means of a spiral spring, *b*, placed upon the spindle and between two washers, as shown in the same figure. The other weaving-stick A is provided near its upper end with an arm, F, extending at right angles from it. Above this arm it is circular, and has mounted, so as to turn freely about it, a cylindrical head, G, serving also as a receptacle or basket, as shown in Figs. 1 and 2. On the under side of this head an internally-toothed spur-gear, H, is securely attached, into which gears a pinion, I. This pinion is con-

nected to a stem or spindle, J, which passes through and extends down below the arm F, and is provided at its lower end with an eye, all as clearly shown in Fig. 2. Outside of and below the gear-wheel H is a ratchet, *c*, also attached to the head G, and into this ratchet, the teeth of which are all set one way, a pawl, K, pivoted to the arm F, is constantly made to engage by means of its lower weighted or heavy end, as shown in the same figure. The upper edge of the head G is provided with two knobs, *d*, equidistant from each other, by means of which it can be conveniently revolved, and when revolved it gives a rapid twisting motion, by means of the spur-gear and pinion, to the stem or spindle J, and with these devices constitutes the braid-mounter, as will be hereafter explained. On the outside of the head G is a hook, *e*, and on the end of the arm F a pin, L, that may be removed when desired.

In operating these devices the weaving-sticks A and B are clamped to the edge of the operator's table at any desired distance apart. The thread upon which the hair is to be woven is wound upon the bobbins E, which are then mounted upon their spindles and the spindles secured to the weaving-stick B. The ends of these threads are then passed around the pin L and connected to the hook *e* on the head G. The pressure of the tension-spring on the bobbins and the locking of the pawl on the ratchet hold the thread taut and apart, when the hair is woven upon them, as shown in Figs. 1 and 2. When the hair is woven along a certain distance on the threads, by relaxing the tension on the bobbins it can be wound up about the head G, as shown in Fig. 1. After the hair has been thus woven on the thread the thread is cut loose from the bobbins and released from the hook *e*, and one end of it is fastened to the end of the spindle J. The operator then, with one hand, seizes the thread at the point where the weaving of the hair terminates, and with the other revolves the head G, which twists the thread between the hand and the spindle; this done, he allows that portion of the thread in which the hair is woven to wind itself up along the thread toward the spindle, and in this way the hair is mounted.

It will be seen that by means of this construction that the weaving-sticks are held firmly in any desired position; that the thread is held in proper position and fed along, as desired, the



woven hair being wound about the head; and that the hair can be easily and quickly mounted. Besides these advantages the head G also serves all the purposes of a work-basket for holding the tools of the operator, and upon the upper end of the weaving-stick A a spool of thread may be placed for convenience.

Having thus described my invention, what I claim is—

1. In combination with a weaving-stick, B, adjustable spindles D, bobbins E, and tension-springs, constructed and arranged to operate substantially as and for the purpose set forth.

2. The combination of the bobbins mounted on the weaving-stick B with a revolving head,

G, ratchet c, pawl K, and pin L mounted on the weaving-stick A, constructed and arranged to operate substantially as and for the purpose set forth.

3. The revolving head G, provided with internal-toothed gear H and ratchet c, in combination with pinion I, spindle J, and pawl K, when constructed and arranged to operate substantially as described, for the purpose of mounting hair, as set forth.

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Witnesses:

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(161)