

No. 714,646.

Patented Nov. 25, 1902.

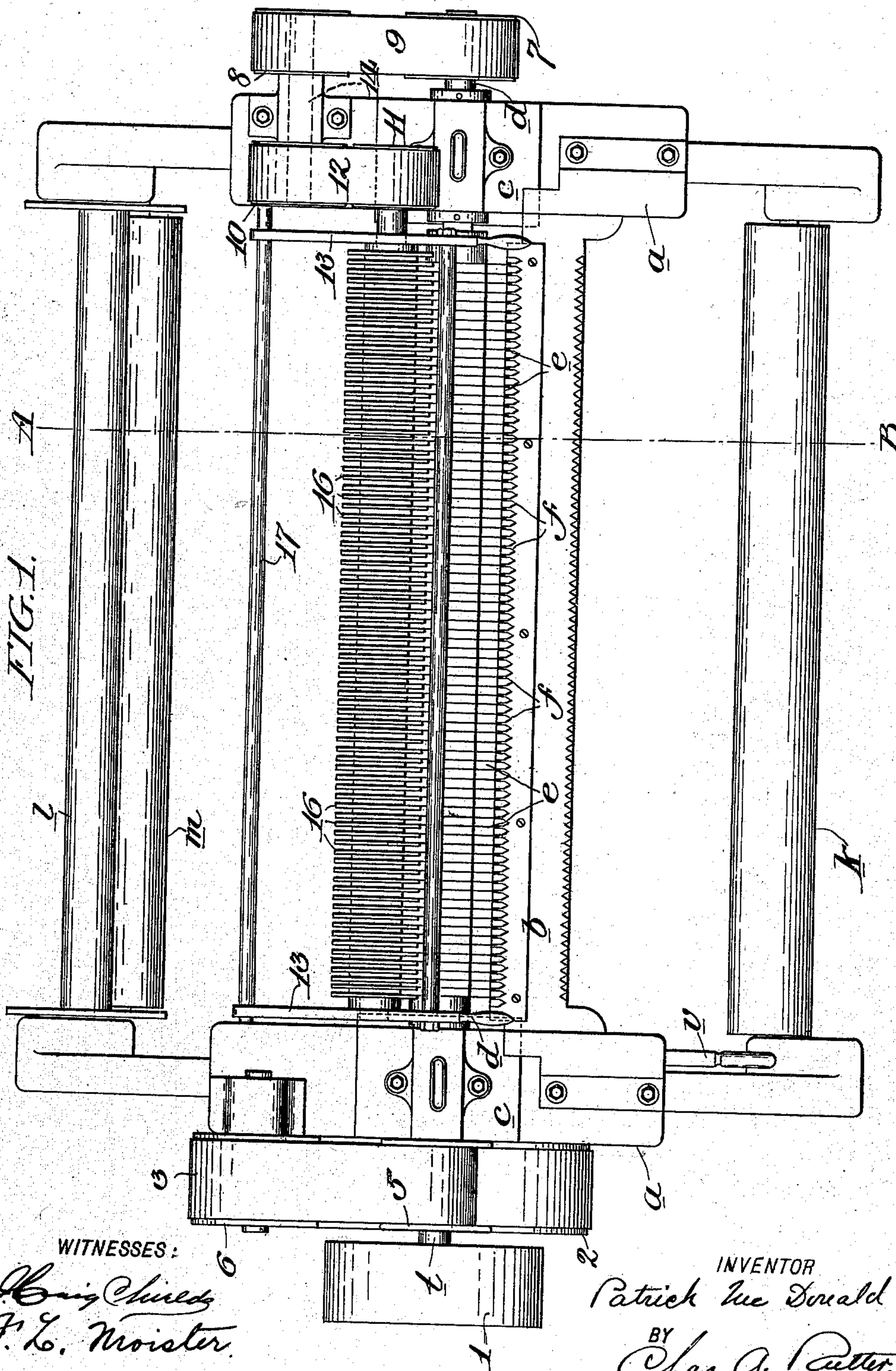
P. McDONALD.

MACHINE FOR CUTTING CHENILLE CLOTH.

(Application filed July 1, 1902.)

(No Model.)

3 Sheets—Sheet 1.



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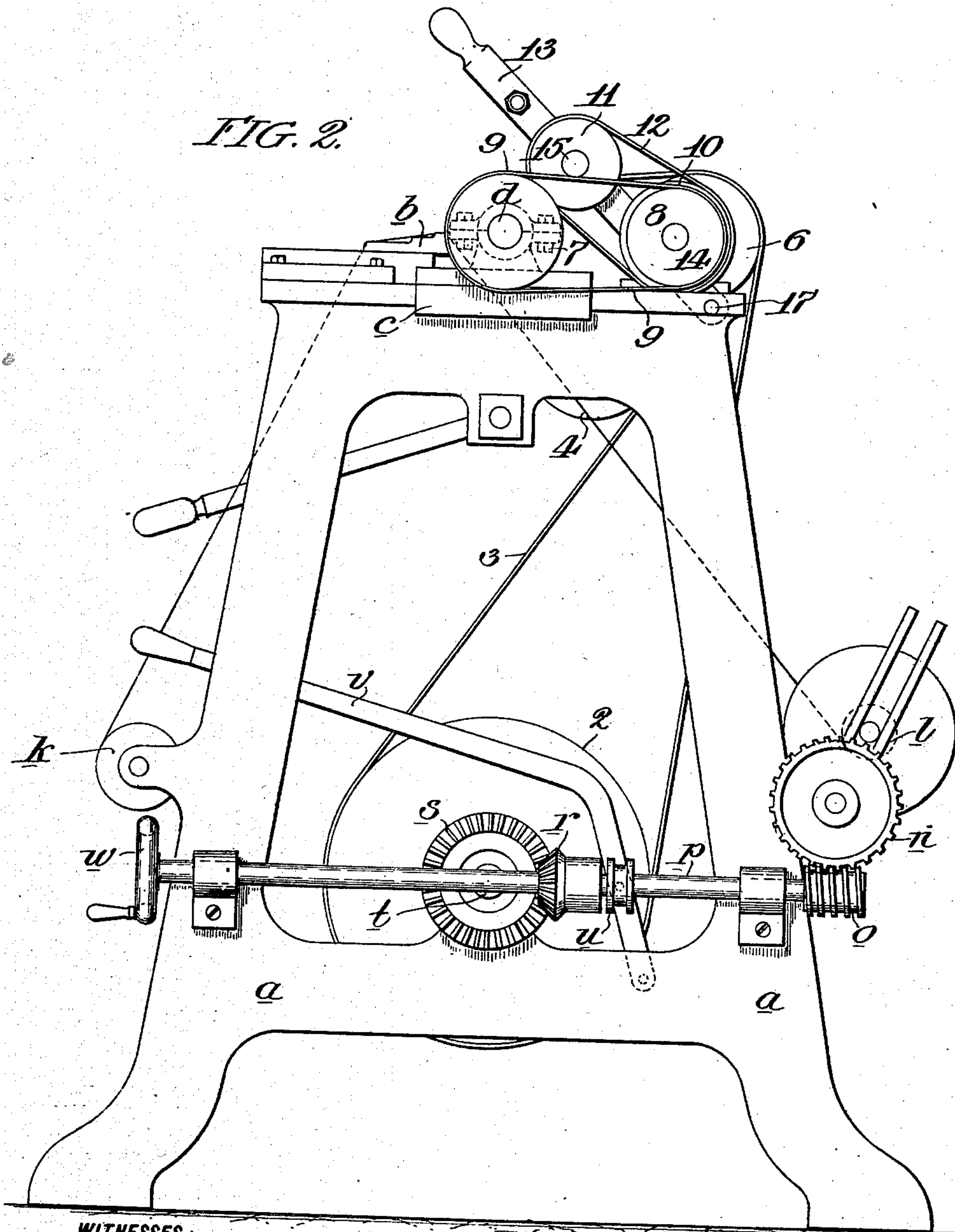
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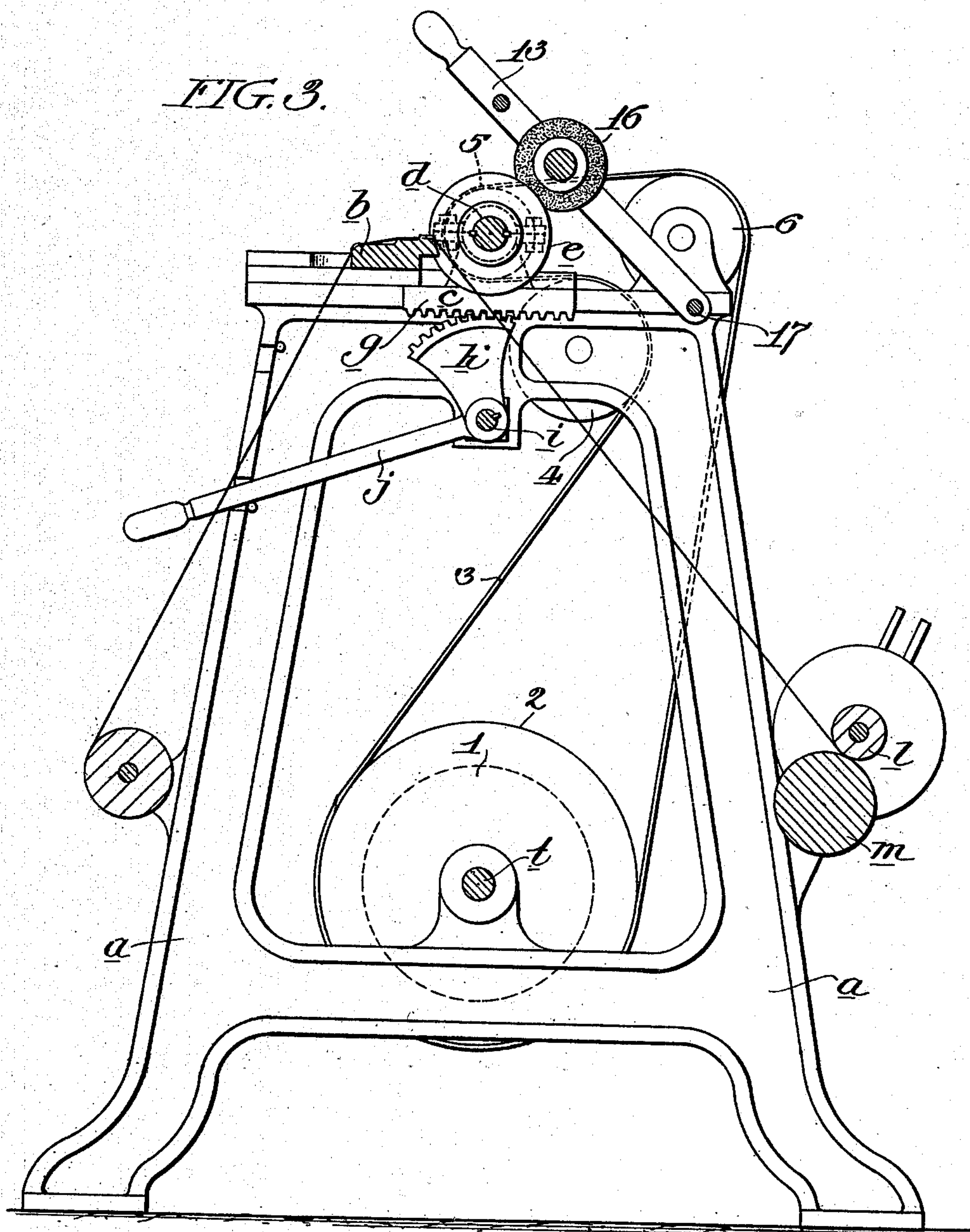
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UNITED STATES PATENT OFFICE.

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MACHINE FOR CUTTING CHENILLE-CLOTH.

SPECIFICATION forming part of Letters Patent No. 714,646, dated November 25, 1902.

Application filed July 1, 1902. Serial No. 113,940. (No model.)

To all whom it may concern:

Be it known that I, PATRICK McDONALD, a citizen of the United States, and a resident of the city and county of Camden, State of New Jersey, have invented certain new and useful Improvements in Machines for Cutting Chenille-Cloth, of which the following is a specification.

My invention relates to improvements in machines for cutting chenille-cloth; and it consists, essentially, of a frame carrying a stationary bed furnished upon its face with a series of grooves or notches which are adapted to be entered by a corresponding series of revolving cutting-disks carried upon a shaft parallel with said bed and carried in bearings carried by the frame, so arranged that they and the shaft may be moved to or from the bed, as may be necessary to bring the disks into contact with the chenille or to move them away from the chenille when for any reason it may be necessary to discontinue the cutting of the cloth.

My invention consists, further, in the particular means for carrying the cutter-carrying shaft, for driving this shaft, and of a means for sharpening the cutting-disks without removing them or their carrying-shaft from the machine.

In the accompanying drawings, forming part of this specification, and in which similar characters of reference indicate similar parts throughout the several views, Figure 1 is a plan of a chenille-cloth-cutting machine embodying my improvements; Fig. 2, an end view of Fig. 1; Fig. 3, a section of Fig. 1 on line A B.

a is the frame of the machine, which carries upon its top a stationary bed *b*, which extends from one end of the machine to the other, and the movable bearing-blocks *c*, which carry the ends of the shaft *d*, which carries the cutting-disks *e*.

f represents grooves or notches in the face of the bed *b*, which mesh with the disks *e*, the grooves and disks being arranged to correspond in number and location with the warp-threads in the chenille-cloth to be cut into strips.

The under sides of the bearing-blocks *c* carry racks *g*, Fig. 3, which are adapted to

be engaged by the teeth of segments *h*, carried on a shaft *i*, carried in bearings in the frame *a*.

j is a lever carried by shaft *i*, by means of which this shaft and segments *h* may be rocked in order to move the bearing-blocks *c* and the shaft *d* and cutting-disks *e* toward or away from the bed-plate *b*.

The chenille to be cut is carried upon an unwinding-roll *k*, carried in suitable bearings in frame *a*. From this roll it passes up over the top of bed *b*, as shown in Figs. 2 and 3, then down to the winding-roll *l*, which is also carried in suitable bearings in frame *a*.

The winding-roll *l* is driven by a friction-roll *m*, which carries a spur-gear *n*, Fig. 2, which is driven by a worm *o* on a shaft *p*, which carries a bevel-gear *r*, which gears with and is driven by a bevel-gear *s*, driven by the main shaft *t* of the machine.

u is a clutch on shaft *p*, by means of which the end of this shaft carrying the worm *o* can be thrown into or out of gear with the driving-gear *r*.

v is a lever by means of which clutch *u* can be operated.

w is a hand wheel or crank on shaft *p*, by means of which this shaft may be operated by hand in order to adjust the chenille upon the winding-roller before the machine is started.

Upon the main shaft *t* of the machine is a pulley 1, Fig. 1, which is driven from any suitable counter-shaft by a belt. (Not shown.)

2 is a pulley on shaft *t*, which drives an endless belt 3. This belt passes over an idler 4, around a pulley 5 on the disk-carrying shaft *d*, and over an idler 6. When the shaft *d* and the disks *e* are moved away from the bed, as before described, the belt 3 is so slackened that the driving of the pulley 5 and the shaft *d* ceases and the hand can be passed down between the bed and cutting-disks in order to rectify any mishaps without danger of accident.

7 is a pulley carried upon the shaft *d*, carrying the cutting-disks. This pulley drives a belt 9, which drives a pulley 8, which through a shaft 14 drives a pulley 10, which drives a belt 12, which drives a pulley 11, fast to a shaft 15, which carries a series of grinding-wheels 16, which are adapted to be brought

into contact with the disks *e* when these latter are dull in order to sharpen them all simultaneously. The grinding-wheels are adapted to be thrown into and out of contact with the disks by means of levers 13, fulcrumed upon a rod 17, as shown in the drawings.

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

1. The combination in a machine for cutting chenille-cloth, of a frame, a stationary notched bed carried by said frame, movable bearing-blocks carried by said frame, a shaft carried by said bearing-blocks, cutting-disks carried by said shaft, means for moving said blocks toward or away from said bed, a pulley on the shaft carrying said disks, a driving-pulley, two idler-pulleys, an endless belt passing under said driving-pulleys and over

said idlers and the pulley on said disk-carrying shaft, and means for driving said driving-pulley.

2. The combination with the cutter-disk-carrying shaft and the cutters of a chenille-cloth-cutting machine and means for driving said shaft, of a pulley on said shaft, a belt driven by said pulley, a pulley driven by said belt, a shaft carrying said pulley, a pulley carried by said latter shaft, a belt driven by said latter pulley, a pulley driven by said belt, a shaft carrying and driven by said pulley, a series of grinding-wheels carried by said shaft, and levers pivoted to the frame of the machine for carrying the grinding-wheel-carrying shaft.

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Witnesses:

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