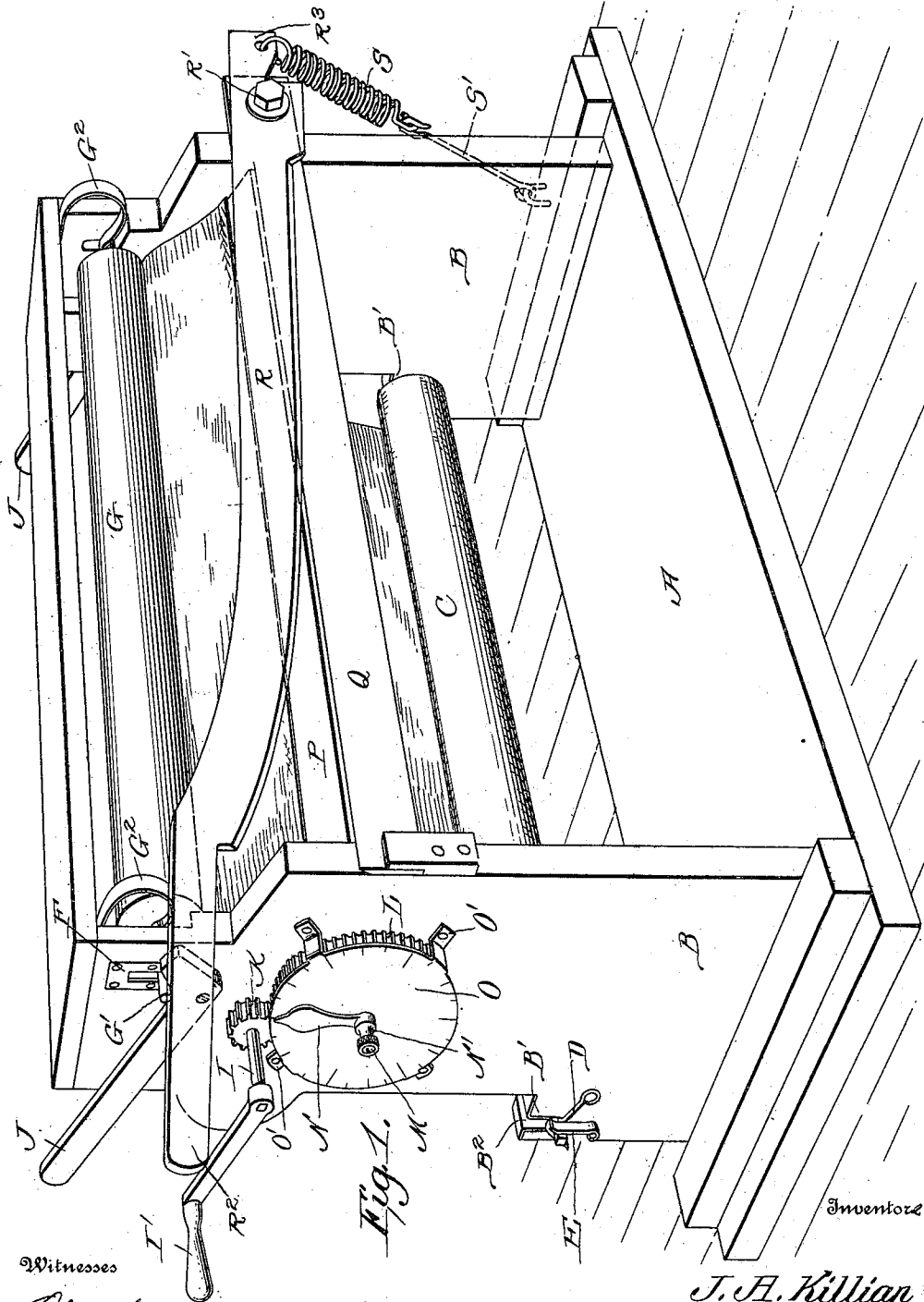


J. A. KILLIAN & G. M. KENNEDY.
CLOTH CUTTING AND MEASURING MACHINE.
APPLICATION FILED JULY 19, 1909.

979,963.

Patented Dec. 27, 1910.

2 SHEETS—SHEET 1.



Witnesses

Oliver H. Holmes
Geo. P. Wright

Fig. 1.

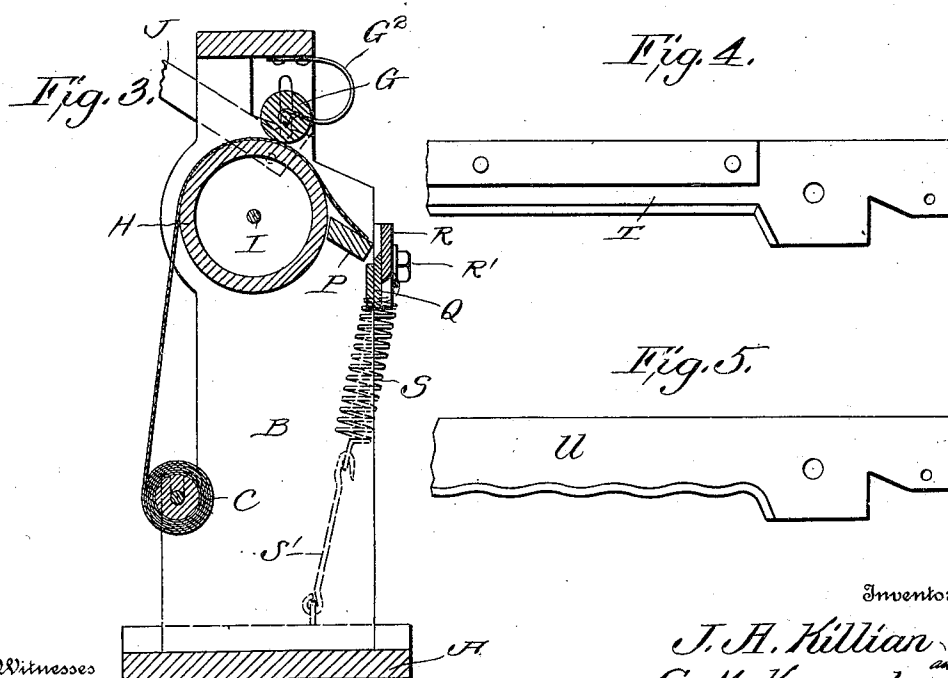
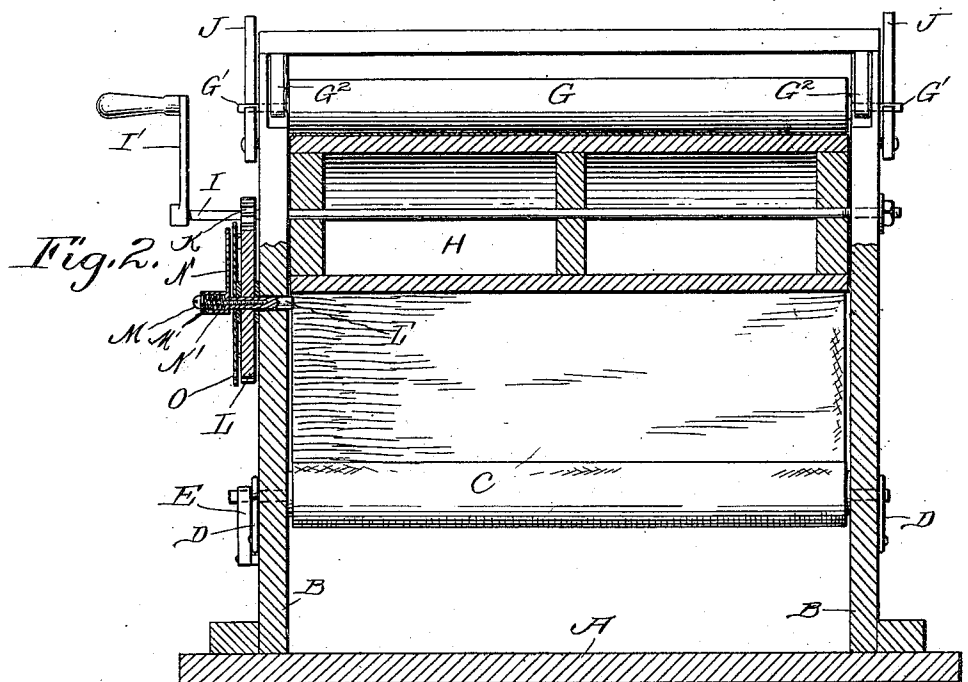
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

JAMES A. KILLIAN AND GEORGE M. KENNEDY, OF HAMBURG, ARKANSAS.

CLOTH CUTTING AND MEASURING MACHINE.

979,963.

Specification of Letters Patent.

Patented Dec. 27, 1910.

Application filed July 19, 1909. Serial No. 508,499.

To all whom it may concern:

Be it known that we, JAMES A. KILLIAN and GEORGE M. KENNEDY, citizens of the United States, residing at Hamburg, in the county of Ashley and State of Arkansas, have invented a new and useful Improvement in Cloth Cutting and Measuring Machines, of which the following is a specification.

10 This invention relates to cloth cutting and measuring machines and more particularly to a machine for cutting and measuring cotton bagging, the object being to provide a machine by means of which the cloth will be measured as it passes through the machine and after the desired amount has passed through the machine the cloth can be readily cut.

20 Another object of the invention is to provide a machine with a measuring cylinder the circumference of which is thirty-six inches so that every time the cylinder revolves a yard of cloth will be measured.

25 Another object of the invention is to provide a registering dial in connection with the measuring cylinder whereby the dial will register the number of yards passed through the machine, so that in selling cloth the salesman can sell any number of yards by simply drawing on the end of the cloth protruding through the machine so that all danger of the cloth slipping is prevented.

35 Another object of the invention is to provide an adjustable pointer whereby the position of the same can be readily changed with respect to the dial so that in adjusting the cloth in the same the pointer can be set accordingly.

40 A still further object of the invention is to provide a novel cutting knife in connection with the measuring machine whereby the cloth can be readily cut after the required number of yards of cloth have been drawn off of the roll of cloth by simply forcing downwardly on the knife.

45 Another object of the invention is to provide means for holding the knife out of the path of the cloth in order that the cloth can be readily forced through the machine without any danger of it becoming caught by the knife.

50 With these objects in view, the invention consists of the novel features of construction, combination and arrangement of parts

hereinafter fully described, pointed out in the claim and shown in the accompanying drawings, in which,

Figure 1 is a perspective view of our improved cloth cutting and measuring machine. Fig. 2 is a vertical longitudinal section through the same. Fig. 3 is a vertical transverse section. Fig. 4 is a detail plan view of a modified form of cutting blade. Fig. 5 is a still further form of cutting blade.

65 In carrying out our improved invention, we employ a base A on which is mounted a frame B comprising a pair of uprights connected together by a top member. The uprights of the frame B are provided with shoulders B' having vertical slots B² formed therein in which are adapted to be placed the ends of a roll of cloth or bagging C, said ends being secured therein by hook members D. The ends of the roll for holding the cloth C, are preferably formed square at their extreme end portions against which are adapted to bear spring members E for applying tension to the same so as to prevent the cloth from unwinding too fast as will be hereinafter fully described. The upper ends of the uprights are slightly reduced in which are formed vertical slots over which are secured guide-plates F in which are mounted the trunnions G' of a pressure roller G which is held down upon the hollow measuring roller H by bowed springs G². The hollow measuring roller H is carried by a transverse shaft I which is provided with a crank I' at one end for operating the same and the roller is thirty-six inches in circumference so that every time the same is revolved a yard of cloth will be drawn off the roll of cloth C.

95 For raising the pressure roller off the measuring roller H in order that cloth can be readily inserted between the same, we pivotally mount on the sides of the uprights of the frame B cam levers J which are adapted to engage the trunnions G' of the pressure roller G when forced downwardly so as to raise the roller and compress the springs so that when cloth has been inserted under the same and released the roller will be forced downwardly on the cloth so as to hold it in its proper position.

105 Secured on the shaft I is a pinion K which is adapted to mesh with a gear L carried by

a stud-shaft L' mounted in one of the up-
rights of the frame B, said stud-shaft being
provided with a threaded bore in its end
into which is adapted to be screwed a ma-
chine screw M on which is mounted the hub
N' of a pointer N which is adapted to work
over a dial plate O secured over the gear
wheel L by feet O' and it will be seen that
as the shaft I is rotated the gear L causes
the pointer to move with the shaft L' so as
to travel around the dial face. The screw
M is surrounded by a coil spring M' within
the hub N' of the pointer N, the outer end
of which bears against a washer carried by
the screw so as to allow the pointer to be
moved longitudinally on the screw and it
will be seen that the tendency of the spring
is to hold the pointer in contact with the
shaft L' so that the same will be locked
thereto by frictional contact and it will be
seen that when it is desired to adjust the
position of the pointer with respect to the
dial it is only necessary to draw outwardly
on the hub so as to throw the same out of
contact with the shaft and the same can be
readily turned.

Secured between the uprights of the frame
B is an apron P for conveying the cloth
from the measuring roller H over the fixed
blade Q which is secured to the edges of the
uprights of the frame B as clearly shown
and co-acting with the fixed cutter Q is a
pivoted cutting blade R which is pivotally
mounted at R' as clearly shown and in the
form shown in Fig. 1 the blade is curved
and has a handle R² at one end and a projec-
tion R³ at the other end to which is con-
nected a coil spring S the free end of which
is connected to a hook S' carried by the base
A and it will be seen that the tendency of the
spring is to draw the knife upwardly out of
the path of the cloth so that after the re-
quired number of yards of cloth has been
forced through the machine by bringing
the knife down the cloth will be cut off
squarely.

In the modification shown in Fig. 4 we
show a movable cutting blade T with a
square edge which may be used in connection

with the fixed blade if desired on our im-
proved machine.

In the form shown in Fig. 5 we provide a
movable cutting blade U provided with a
serpentine edge.

The operation of our improved machine is
as follows: A roll of cloth is placed in the
machine and the end of the same is forced be-
tween the pressure roller and measuring
roller, it of course being understood that the
levers J are forced downwardly so as to al-
low the cloth to be inserted between the re-
spective rollers and as the crank I' is oper-
ated the cloth will be carried through the
machine by the frictional contact with the
rollers and as the shaft I carrying the meas-
uring roller revolves the gear L is rotated
causing the pointer to move around the dial
so that the number of yards which have been
forced through the machine will be regis-
tered and after the number of yards desired
has been drawn off the roll by forcing the
movable cutting blade down the cloth can
be cut.

What we claim is:—

In a machine of the kind described the
combination with a base having a frame
mounted thereon comprising uprights con-
nected together by a top member, said up-
rights being provided with shoulders hav-
ing vertical slots, a cloth roller mounted
within said slots, means for holding said
roller therein and applying tension thereto,
a spring actuated pressure roller mounted
in slots formed in said uprights, cam-levers
for raising said roller, a measuring roller
arranged under said pressure roller, a shaft
mounted in one of said uprights, a gear car-
ried by said shaft, a dial arranged over said
gear, a pointer working over said dial and
operated by said shaft and a gear operated
by the measuring roller meshing with said
gear, for the purpose set forth.

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Witnesses:

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