

No. 741,930.

PATENTED OCT. 20, 1903.

P. E. SALIN.
CLOTH CUTTER FOR CUSTOM TAILORS.
APPLICATION FILED NOV. 28, 1902.

NO MODEL.

Fig. 1.

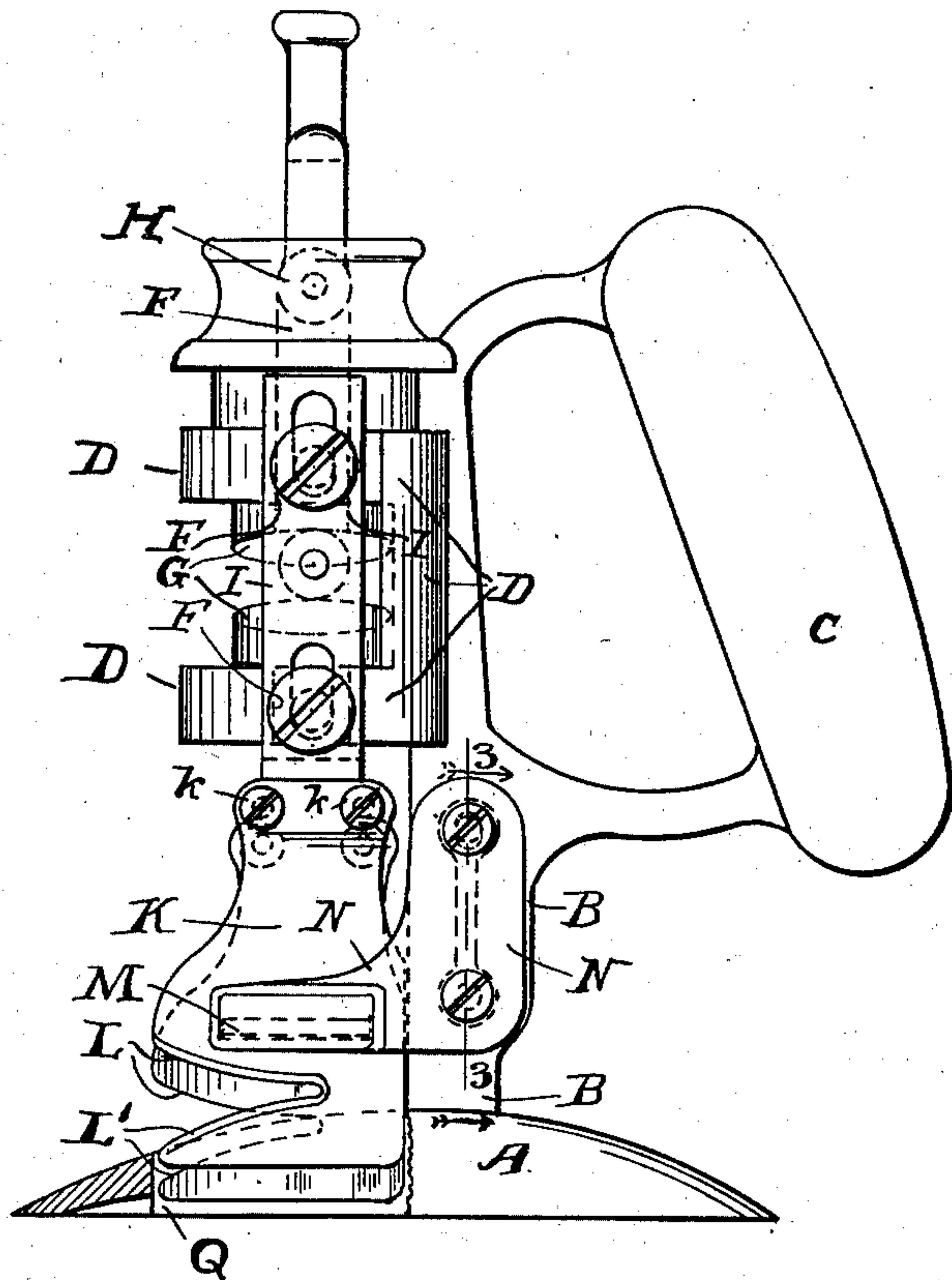


Fig. 2.

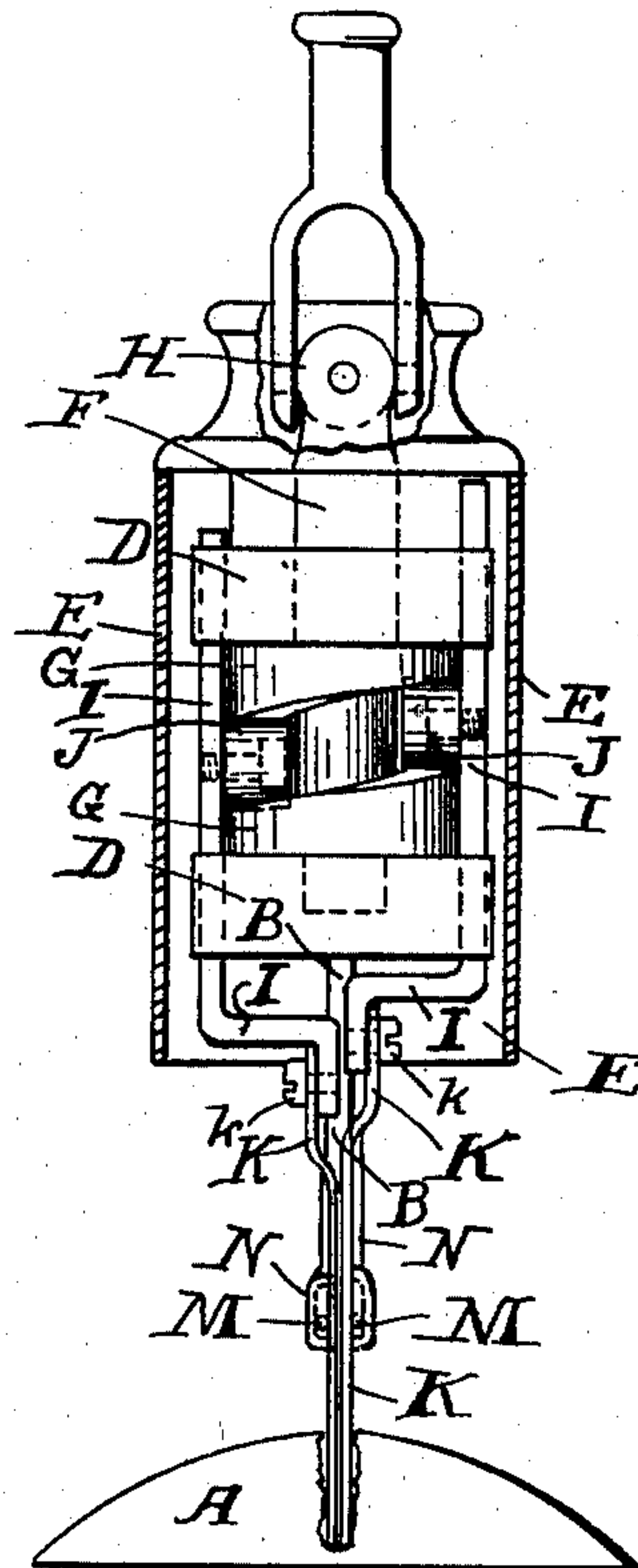


Fig. 3.

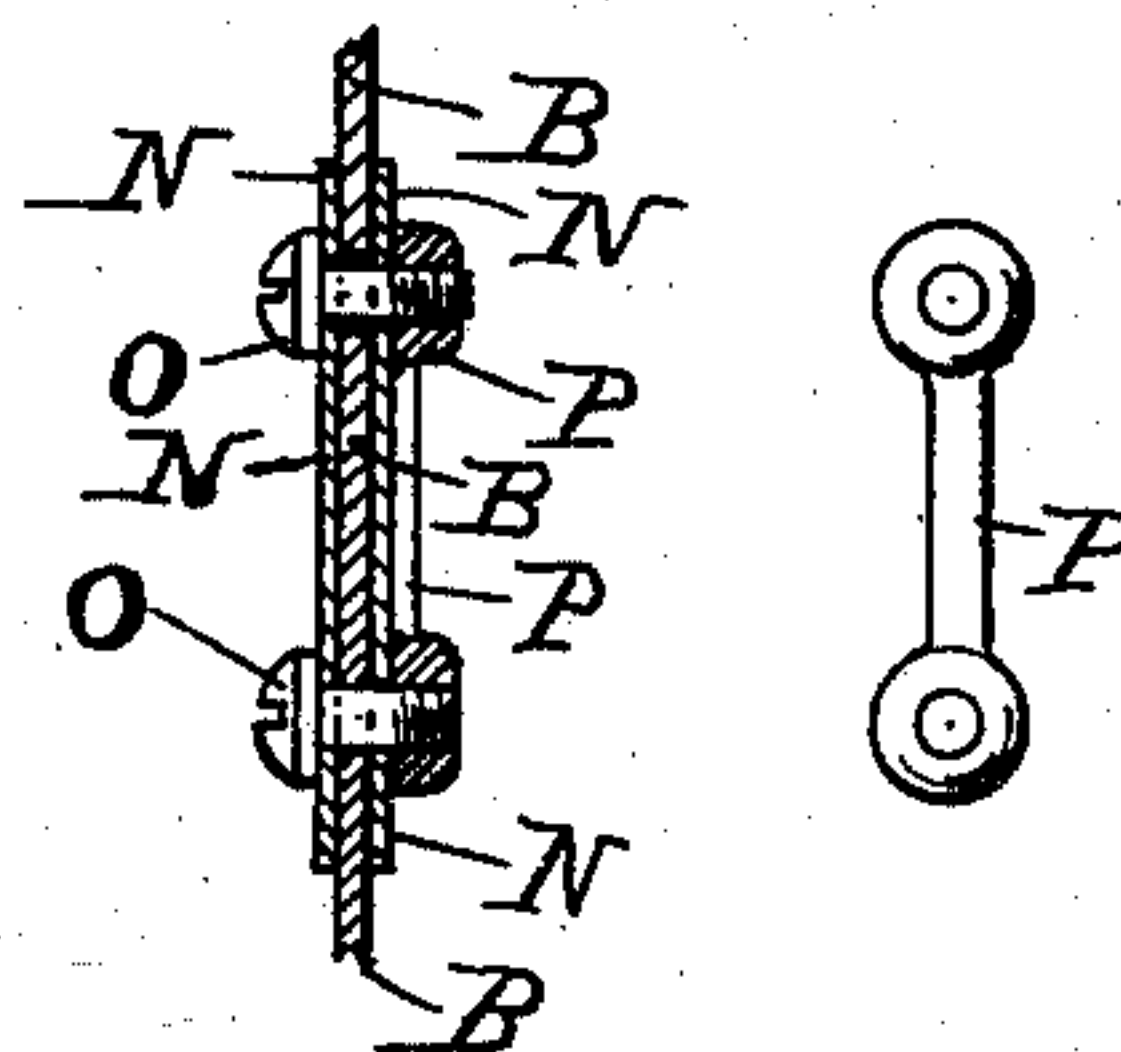


Fig. 4.

Witnesses:
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Inventor,
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By Charles Turner Brown,
Att'y.

UNITED STATES PATENT OFFICE.

PER E. SALIN, OF CHICAGO, ILLINOIS.

CLOTH-CUTTER FOR CUSTOM TAILORS.

SPECIFICATION forming part of Letters Patent No. 741,930, dated October 20, 1903.

Application filed November 28, 1902. Serial No. 133,046. (No model.)

To all whom it may concern:

Be it known that I, PER E. SALIN, a citizen of the United States, residing in Chicago, in the county of Cook and State of Illinois, have
 5 invented certain new and useful Improvements in Cloth-Cutters for Custom Tailors, of which the following, when taken in connection with the drawings accompanying and forming a part hereof, is a full and complete
 10 description, sufficient to enable those skilled in the art to which it pertains to understand, make, and use the same.

This invention relates to a cloth-cutting machine provided with blades which are rapidly moved as the machine is moved forward to cut the cloth.

The object of this invention is to obtain a cloth-cutter provided with shear-blades so related to each other that in the movement
 20 thereof when the machine is moved against a limited number of thicknesses of cloth a shearing cut will be obtained in substantially the same manner as when a limited number of thicknesses of cloth are cut by ordinary
 25 shears, thus enabling a custom tailor to rapidly cut the cloth for a coat, a vest, or trousers.

In the drawings referred to as forming a part of this application, Figure 1 is a side
 30 elevation of the cloth-cutter embodying this invention, with the outer casing covering the driving parts of the shear-cutting blades cut away to expose such parts to view; and Fig. 2 is a front elevation of such cloth-cutter,
 35 with the front part of the casing thereof removed to expose the movable parts of the cloth-cutter to view. Fig. 3 is a sectional view on line 3 3 of Fig. 1 viewed in the direction indicated by the arrows; and Fig. 4 is
 40 an elevation of a nut, which is shown in side or edge elevation in Fig. 3.

A reference-letter applied to designate a given part is used to indicate such part throughout the several figures of the drawings wherever the same appears.

A is the base of the cutter and is made of suitable shape to be slid around upon a table.

B is a standard extending upward from the base A, and C is the handle of the apparatus.

D D are projecting lugs on standard B.

E is a casing inclosing the standard B and the actuating mechanism of the apparatus.

F is a vertical shaft journaled in the projecting lugs D D.

G G are cams secured on the shaft F to rotate therewith.

H is a universal joint at the upper end of the shaft F. To produce rotation of the shaft F, an ordinary flexible shaft is secured to the
 60 universal joint H.

I I are longitudinally-movable parts or frames mounted on the projections D D and provided, respectively, with pulleys J J, coming between the faces of the cams G G, so
 65 that by the rotation of such cams (by rotation of shaft F) such parts or frames I I are moved longitudinally. Rapid rotation of shaft F in this manner produces rapid longitudinal movement of the parts or frames I I.

K K are steel blades respectively secured to parts or frames I I, as by the screws *k k*. The blades K K are each provided with V-shaped recesses, the cutting edges L L' thereof being at a slight angle from a horizontal plane
 75 and so arranged relative to each other that when the cutting edge L of one of the blades K is descending the cutting edge L' of the other of such blades K is ascending, and cloth or other suitable article in the V-shaped
 80 recesses between such cutting edges is thereby cut with a shearing action—that is, as by a pair of shears. By this arrangement when blades K K ascend as well as when such blades descend the shearing cut referred to
 85 is obtained, the cutting edge L on one of such blades coöperating in the downward movement thereof with the cutting edge L' of the other blade K in the upward movement of such other blade. In the hereinbefore-described shear action of the cutting edges L
 90 L' the blades K K are forced apart by the cloth which is being cut thereby, and to hold the blades K K in proper relation to each other I place the rollers M M against such
 95 blades, respectively, holding such rollers in position by the frames N N, which are secured to the upright B by the bolts O O.

P, Fig. 1, is a nut in which the screw-threaded part of the bolts O O engage. The frames
 100 N N are adjustably forced toward the cutting-blades K K by adjustment of the screw-

threaded part of the bolts O O in the nut P, the part of the bolts between the heads thereof and the screw-threaded part moving longitudinally in frame N N and standard B.

5 Q is a slot in base A, in which slot the lower ends of blades K K descend. The purpose of nut P is to enable me to adjust the cutting-blades relative to each other by turning the screws O O in such nut.

10 I find in making a V-shaped recess in blades K K with the cutting edges L L', as described, rapid longitudinal movement of blades K K will rapidly cut one or more thicknesses of cloth, and a pattern or chalk-mark may be
15 followed by moving the apparatus against such cloth.

To operate the apparatus, it is simply moved around on a table by a person grasping the handle C, so that the cloth to be cut is raised
20 by the base A for the cutting edges L L' to engage therewith, such cutting edges being arranged relative to the base A, so that the cutting edges L' L' are alternately above and below the upper surface of the base A, and

the cutting edges L L are arranged relative 25 to such base A and cutting edges L' L', so that when the cutting edges L' L', respectively, rise above the upper surface of the base A they will be respectively met by a descending edge L L in such manner as to en- 30 gage with and cut the cloth which is between such cutting edges.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is— 35

In a cloth-cutting apparatus provided with movable blades and means to actuate such blades, rollers rotatably mounted in adjustable frames to come in contact with the blades, such blades respectively provided 40 with a V-shaped recess and cutting edges therein between which cutting edges cloth is engaged and cut, in the operation of the apparatus; substantially as described.

PER E. SALIN.

In presence of—

CHARLES TURNER BROWN,
O. C. PETERSON.