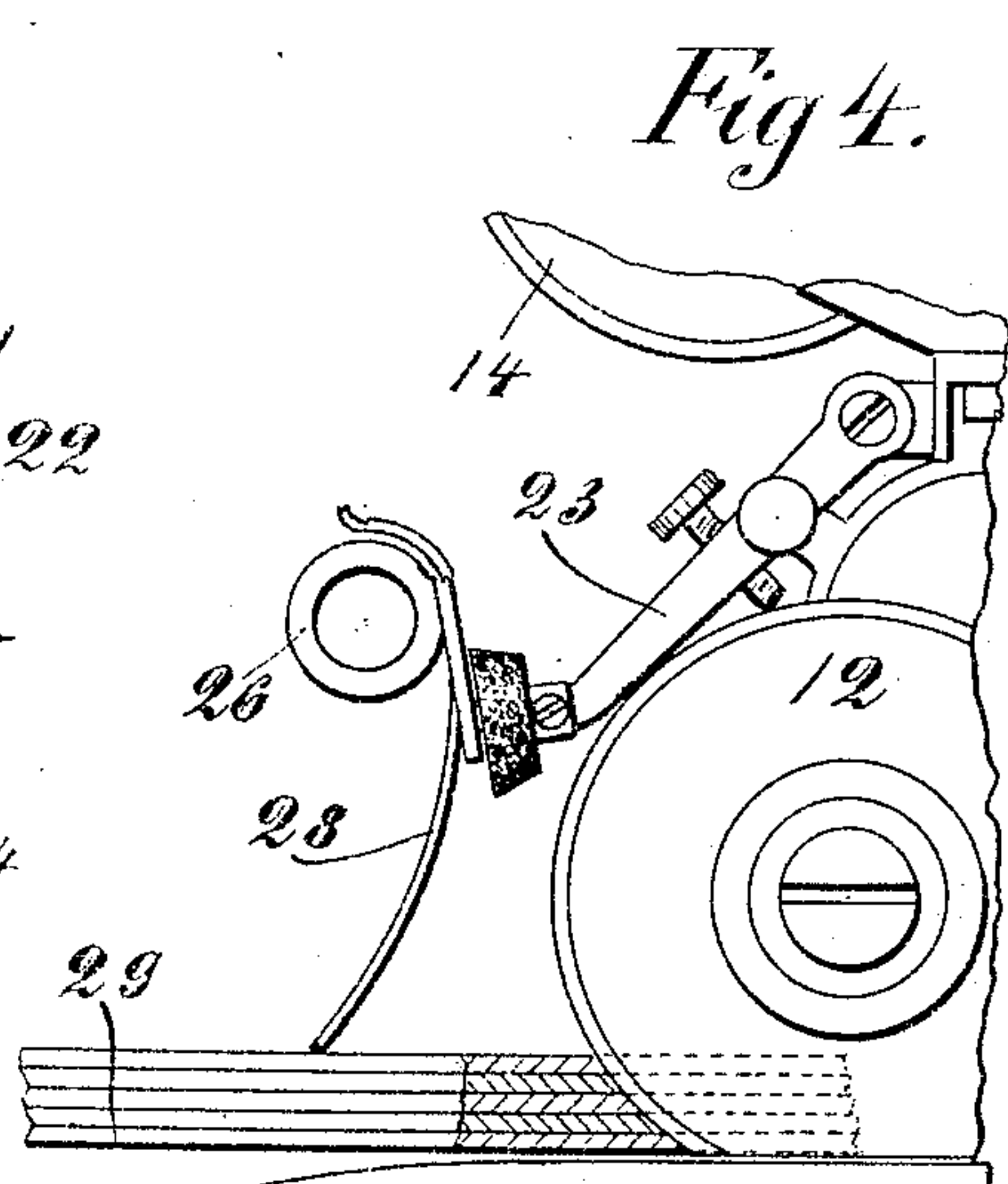
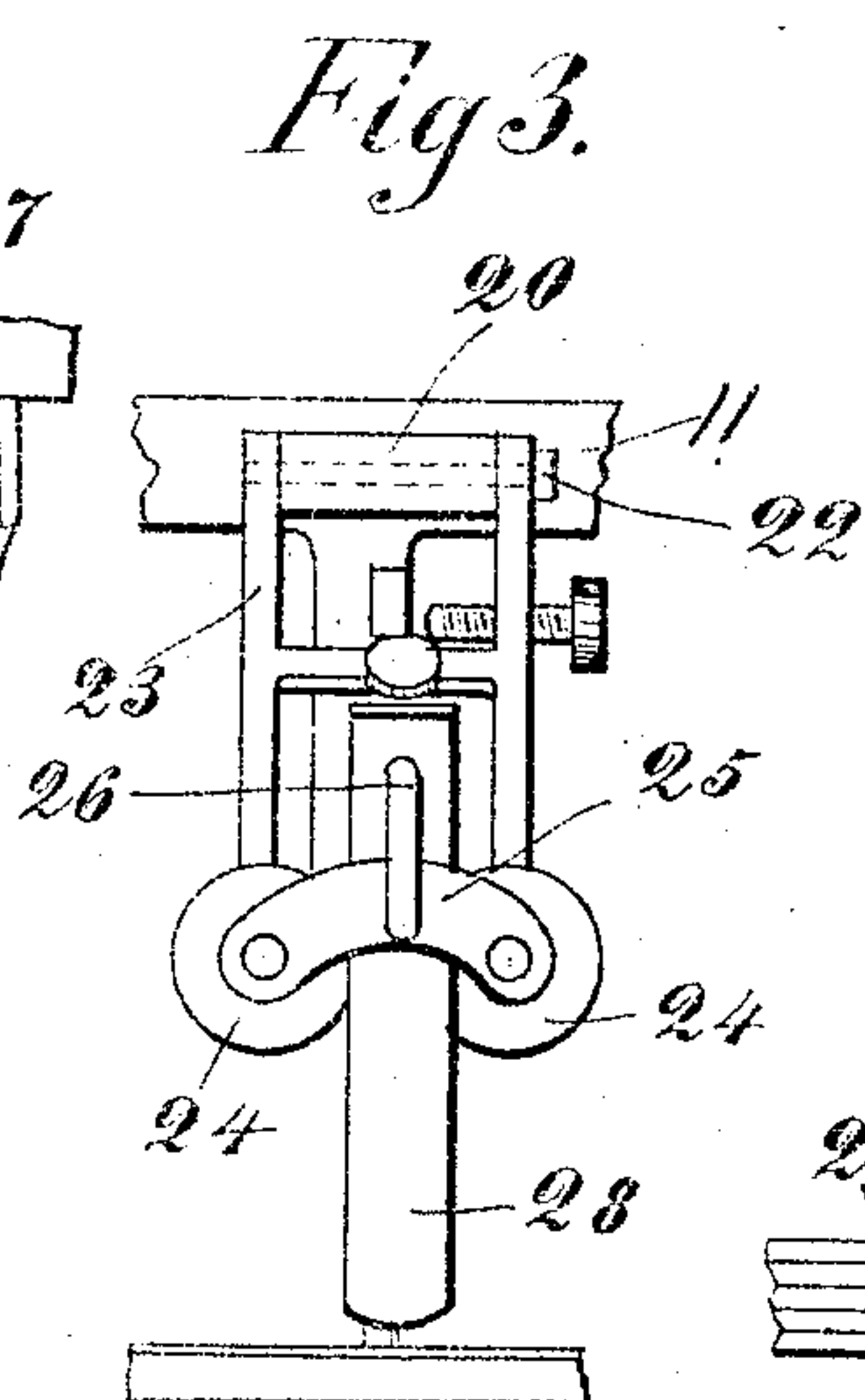
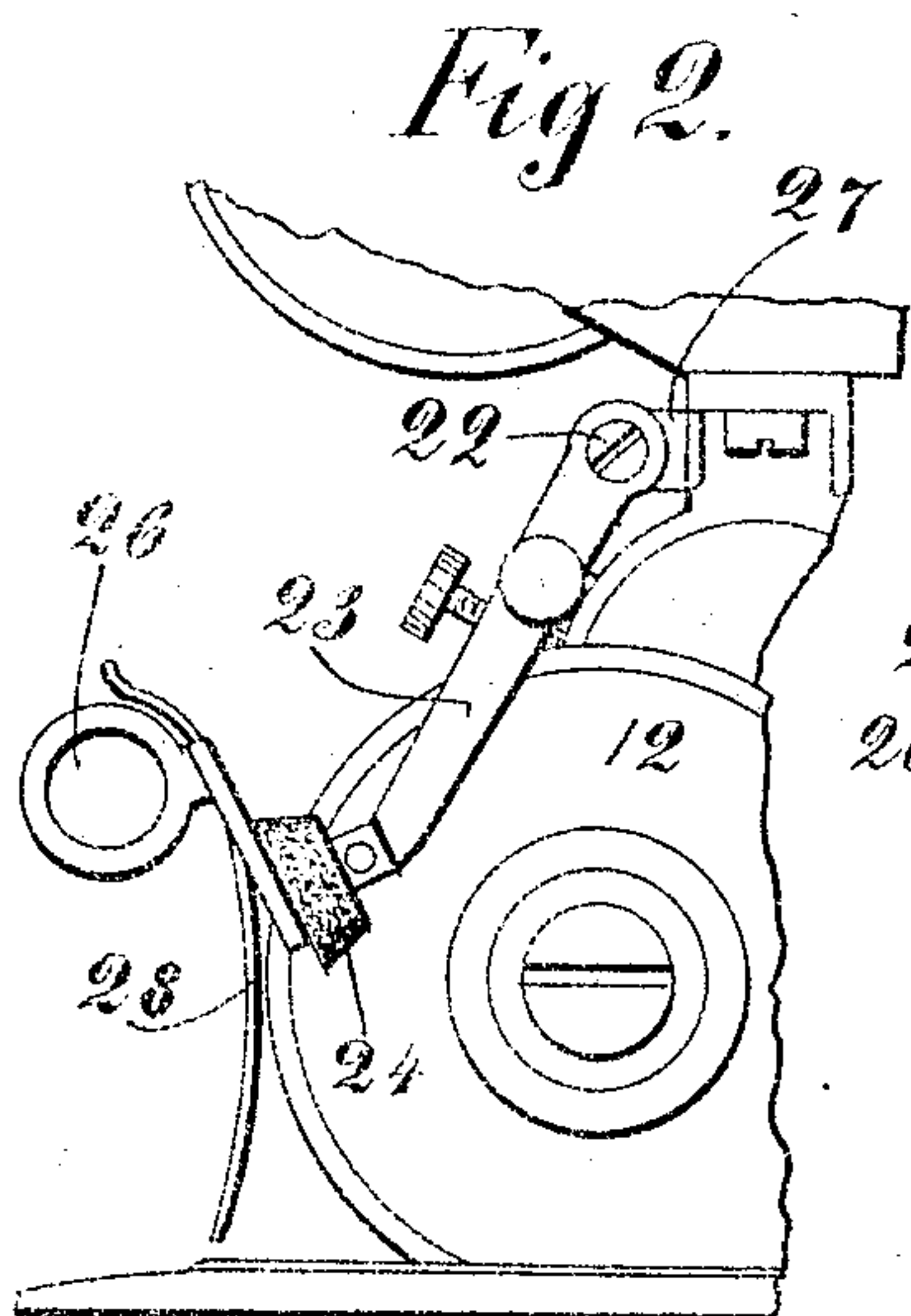
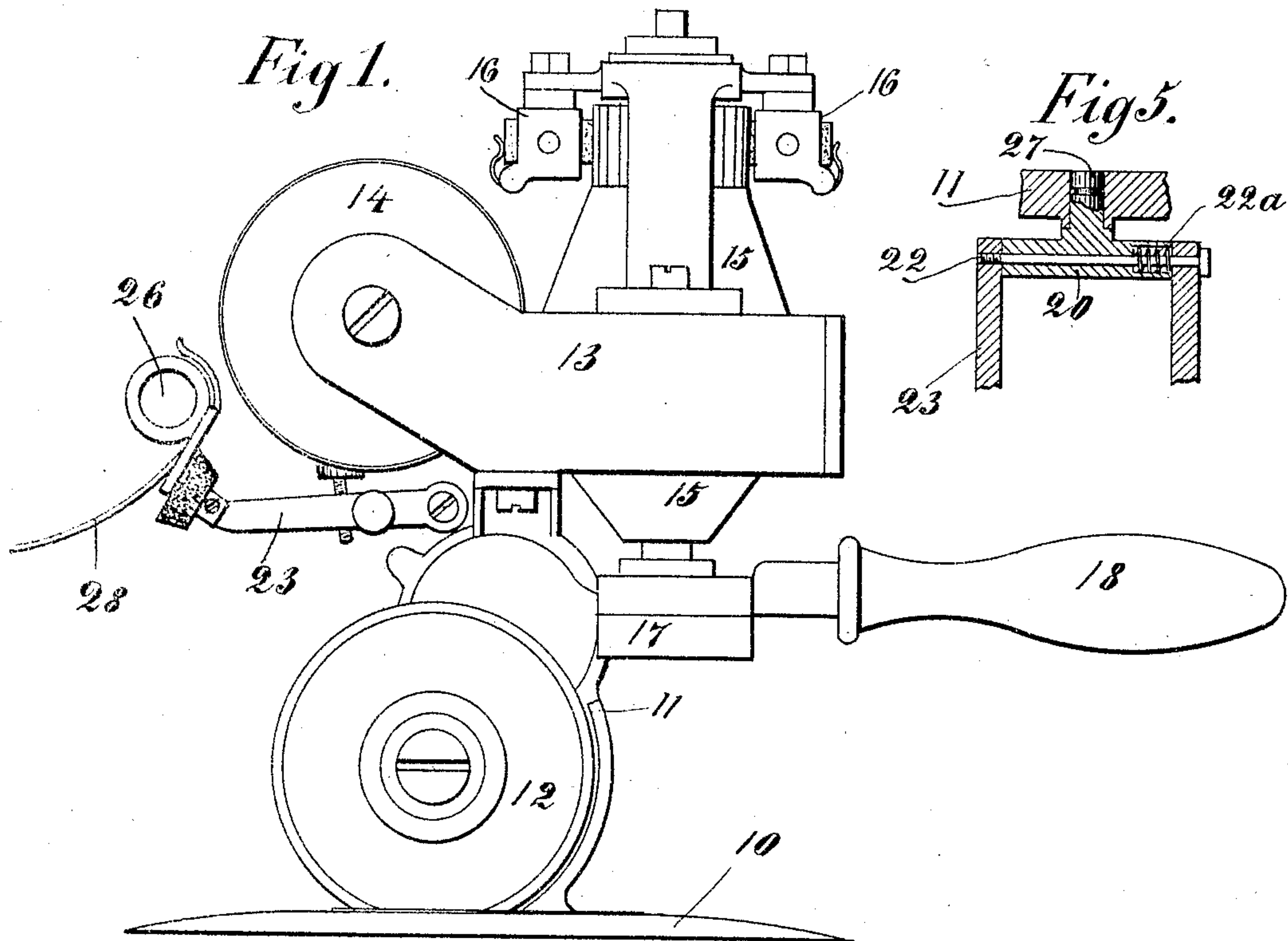


No. 765,454.

PATENTED JULY 19, 1904.

F. BAUMANN, JR.  
CLOTH CUTTING MACHINE.  
APPLICATION FILED APR. 1, 1904.

NO MODEL.



WITNESSES

*F. A. Stewart*  
*A. B. Mattingly*

INVENTOR

BY *Frederick Baumann, Jr.*  
*Edgar & Co.*

ATTORNEYS



# UNITED STATES PATENT OFFICE.

FREDERICK BAUMANN, JR., OF RUTHERFORD, NEW JERSEY, ASSIGNOR  
TO UNIVERSAL CUTTER CO., OF ST. LOUIS, MISSOURI.

## CLOTH-CUTTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 765,454, dated July 19, 1904.

Application filed April 1, 1904. Serial No. 201,091. (No model.)

*To all whom it may concern:*

Be it known that I, FREDERICK BAUMANN, Jr., a citizen of the United States, residing at Rutherford, in the county of Bergen and State of New Jersey, have invented certain new and useful Improvements in Cloth-Cutting Machines, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to cloth-cutting machines of the class shown and described in the United States Letters Patent No. 665,167, dated January 1, 1901; and the object of the invention is to provide means whereby the cutting blade or wheel of a machine of this class cannot be sharpened or ground while the cloth is in position to be cut or the machine in position to operate on the cloth. It is a well-known fact that the sharpening or grinding of the cutter blade or wheel of a machine of this class when the cloth is in position to be cut or the machine in position to operate on the cloth is dangerous by reason of the fact that the cloth may be burned or injured or fire started by sparks from the grinding or sharpening devices coming in connection with the cloth, and it is to remedy this objection that my present improvement is designed.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which—

Figure 1 is a side view of a machine of the class specified provided with my improvement; Fig. 2, a partial view thereof, showing the grinding or sharpening device in position for use; Fig. 3, a front view of that part of the device shown in Fig. 2; Fig. 4, a view similar to Fig. 2, but showing cloth in a position to be cut; and Fig. 5, a sectional plan view of the construction shown in Fig. 3.

In the accompanying drawings, which form a part of this specification, the reference character 10 designates a foot-plate, which also serves as a base or support for the machine, and this foot-plate is circular in form and is beveled from the center toward the edges, so

as to allow it to slide easily beneath the cloth. Carried by the foot-plate 10 is a standard or support 11, on which is mounted a rotary cutter 12, which coöperates with the foot-plate 10, and secured to the upper part of the standard or support 11 is the frame 13 of an electric motor, having a field-coil 14 and an armature 15, and said motor is provided with the usual brushes 16. The rotary cutter 12 is driven from the armature 15 of the motor by means of a gearing contained in the standard or support 11, and a gear-case 17 and a handle 18 is secured to the gear-case, by means of which the machine is guided.

A tubular bearing 20 is connected with the standard or support 11, and connected therewith by means of a screw 22 is a yoke-shaped frame 23, which frame and its supports are directly over the rotary cutter 12, and said yoke-shaped frame 23 is adapted to be held in a raised position, as shown in Fig. 1, by a spring 22<sup>a</sup> in the bearing 20, which is shown in Fig. 5, and to be lowered into the position shown in Fig. 2 when it is desired to sharpen or grind the rotary cutter.

Loosely mounted on the yoke-shaped frame 23 or at the free end thereof are two grinding-wheels 24, which are preferably slightly conical in form, and the ends of the sides of the yoke-shaped frame 23 are connected by a bar 25, which is preferably curved upwardly, so as to prevent it from coming in contact with the edge of the rotary cutter, and said bar is provided with a ring 26, which serves as a handle for operating the frame 23 and the grinders 24. The yoke-shaped frame 23 is also adapted to turn laterally by reason of a pivot-pin 27, connected with the tubular bearing 20 and passing into the standard or support 11, all these parts being fully shown and described in the patent hereinbefore referred to.

Secured to the bar 25 and projecting downwardly and curved slightly forwardly is a guard or finger 28, which constitutes the subject-matter of this invention and which is designed to prevent the sharpening or grinding of the rotary cutter 12 when the cloth 29 is in position to be cut, as shown in Fig. 4. When the cloth is not in position to be cut, the frame



23 may be lowered, as shown in Fig. 2, and the rotary cutter may be ground or sharpened, as will be readily understood and as shown and described in the patent hereinbefore referred to; but when the cloth is in position to be cut the guard or finger 28 will strike on the cloth and will prevent the lowering of the frame 23, so as to bring the grinders 24 in position to operate on the cutter 12. It will therefore be seen that the rotary cutter 12 cannot with my improvement be sharpened or ground when the cloth is in position to be cut, and in order to sharpen or grind said cutter the machine must be moved away from the cloth or the cloth away from the machine.

I have shown and described the principal parts of the machine, so as to give an idea of the construction and operation thereof when provided with my improvement; but the details of the gearing which comprise the cutter 12 and other details of the construction of the machine, together with parts of the frame 23, are not described herein, for the reason that they form no part of this invention and for the further reason that they are fully shown and described in the patent referred to.

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

1. In a cloth-cutting machine, a foot-plate provided with a standard or support, a rotary cutter mounted on said standard or sup-

port and operating in connection with the foot-plate and in a vertical plane, a frame pivoted to said standard or support over said cutter and adapted to swing in the plane of the cutter and provided at its free end with rotary grinders, and a guard connected with the free end of said frame and adapted to strike the cloth when said frame is lowered so as to prevent the grinding of the cutter when the machine is in position for use on the cloth, substantially as shown and described.

2. A machine of the class described provided with a foot-plate, a rotary cutter mounted thereover and adapted to operate in connection therewith, said machine being also provided with a pivoted frame adapted to swing in the plane of the cutter and provided at its free end with rotary grinders, and a guard connected with said frame and adapted when said frame is lowered to strike the cloth and prevent the grinding of the cutter when the machine is in position for use on the cloth, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 22d day of March, 1904.

FREDERICK BAUMANN, JR.

Witnesses:

F. A. STEWART,  
C. J. KLEIN.