

No. 869,765.

PATENTED OCT. 29, 1907.

P. ANSCHÜTZ.
TAKE-UP MECHANISM FOR SEWING MACHINES.

APPLICATION FILED OCT. 27, 1905.

2 SHEETS—SHEET 1.

Fig. 1

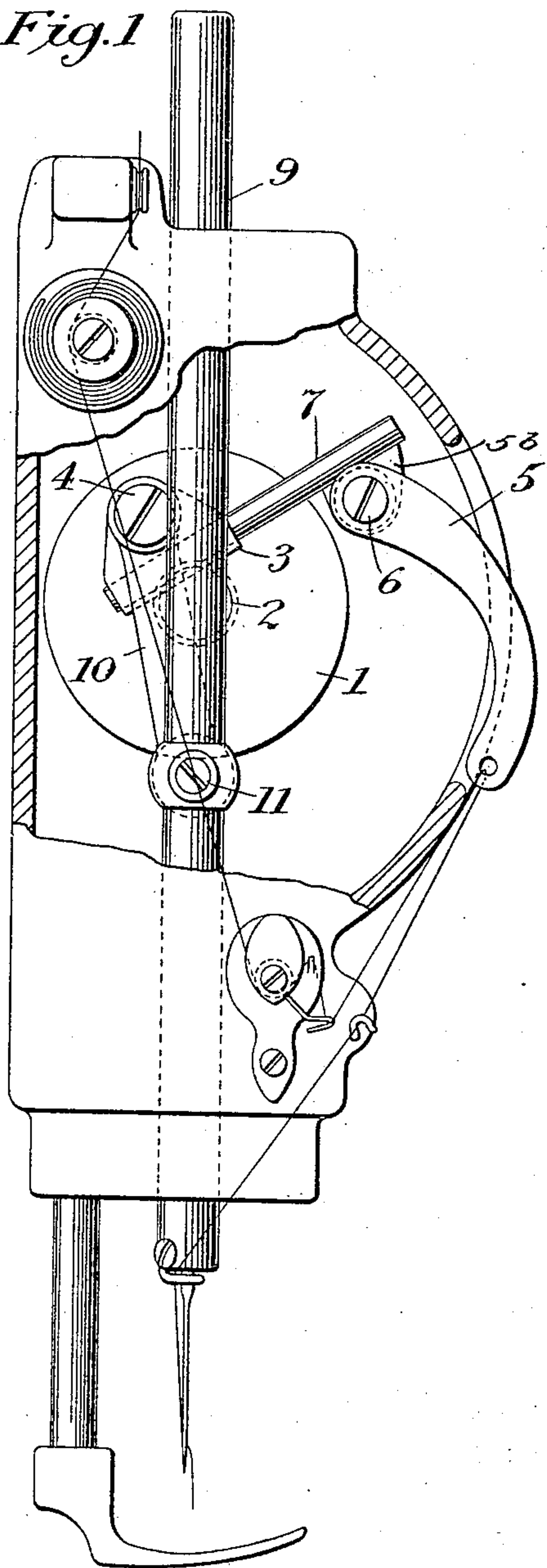
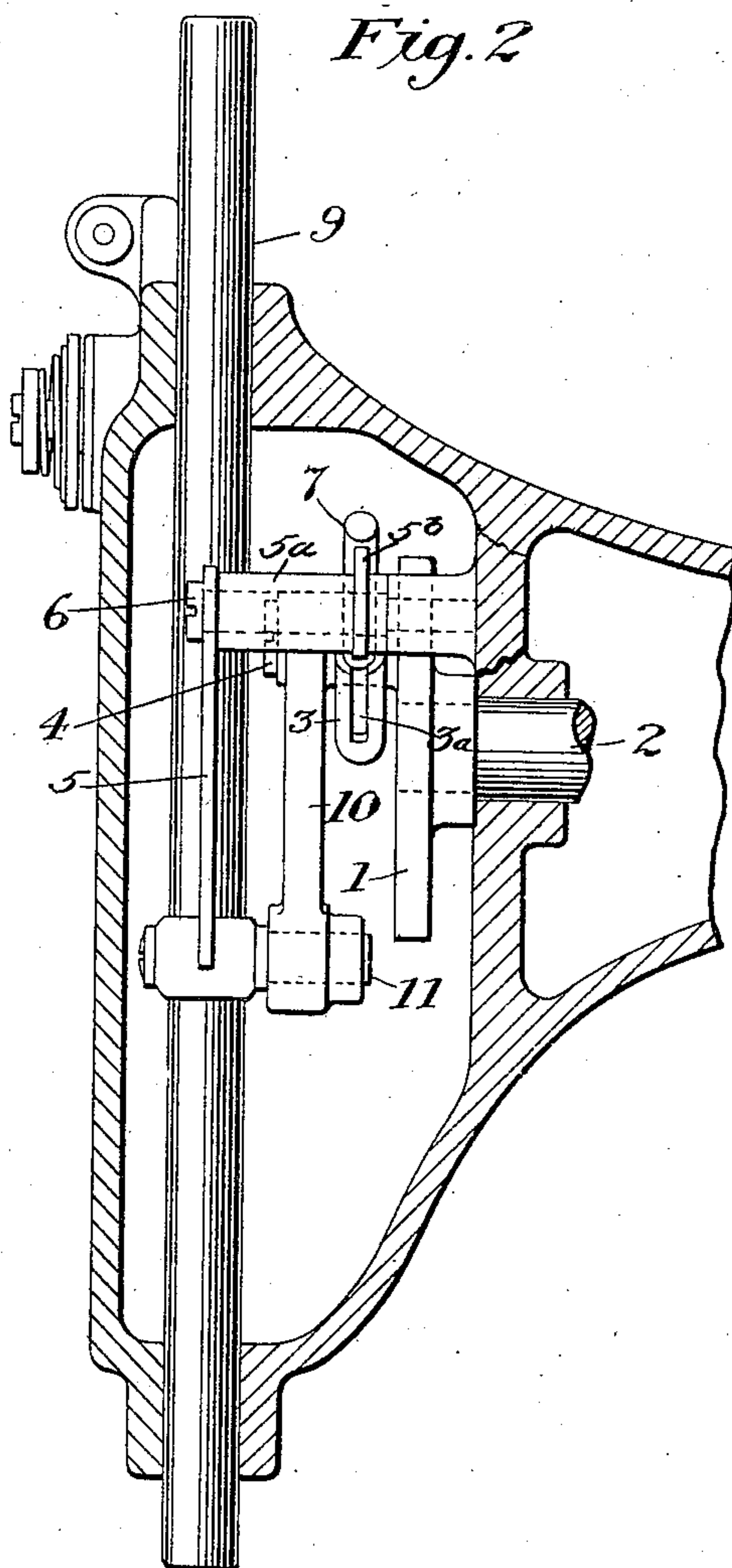


Fig. 2



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2 SHEETS—SHEET 2.

Fig. 3

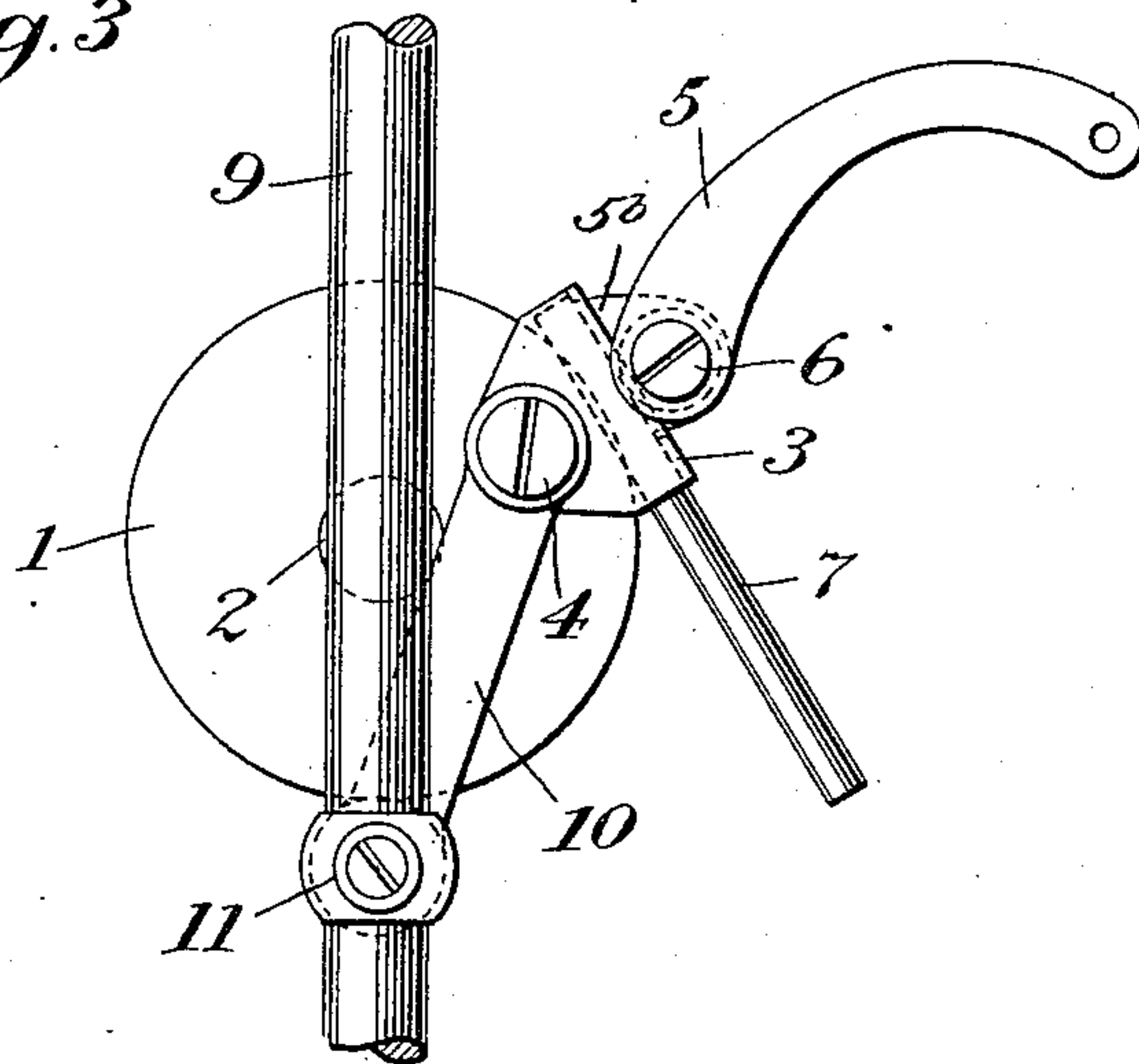
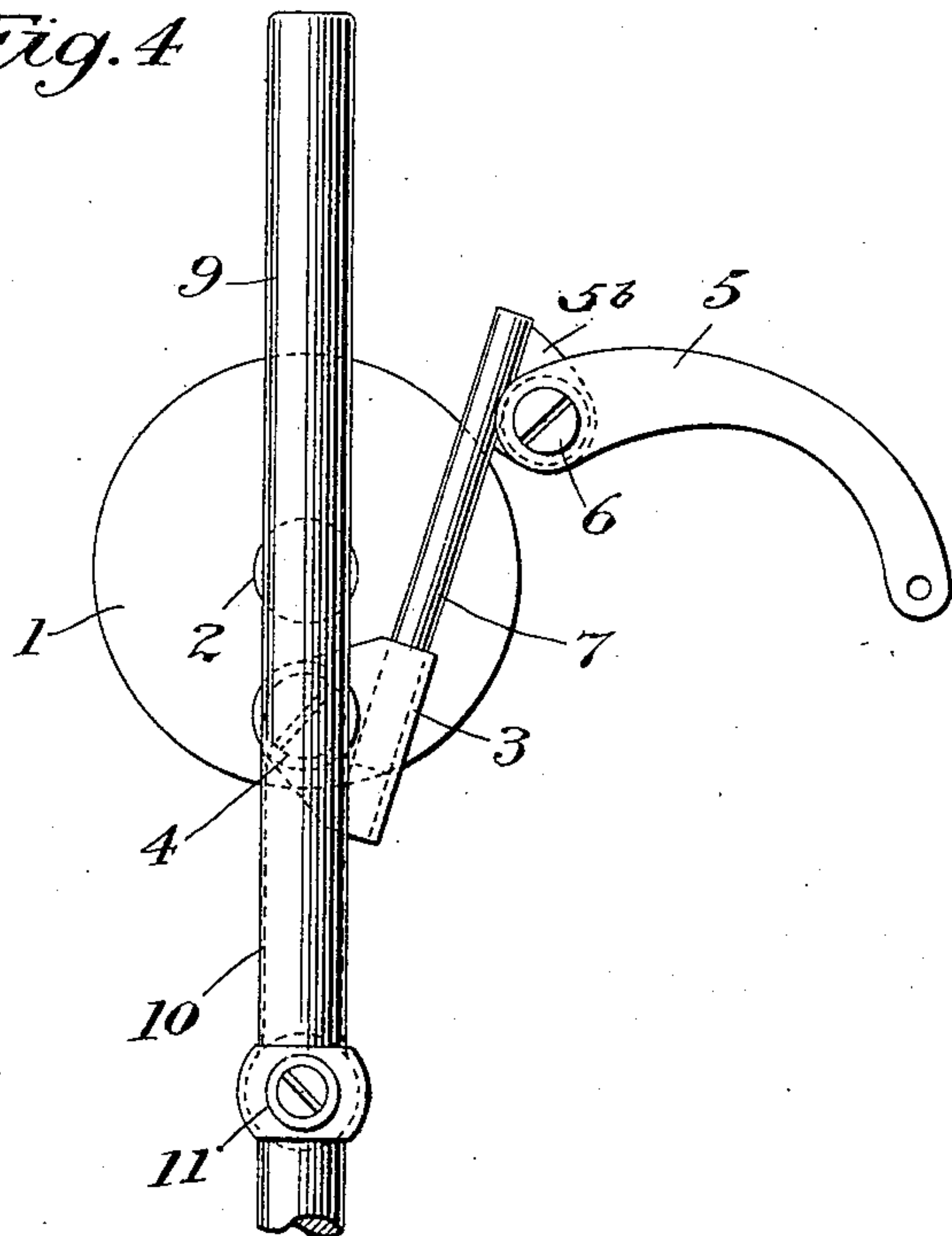


Fig. 4



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UNITED STATES PATENT OFFICE.

PAUL ANSCHÜTZ, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO GEORGE BICKELHAUPT,
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TAKE-UP MECHANISM FOR SEWING-MACHINES.

No. 869,765.

Specification of Letters Patent.

Patented Oct. 29, 1907.

Application filed October 27, 1905. Serial No. 284,621.

To all whom it may concern:

Be it known that I, PAUL ANSCHÜTZ, a citizen of the United States, residing in New York city, borough of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Take-Up Mechanism for Sewing-Machines, of which the following is a full, clear, and exact specification.

My invention relates to certain new and useful improvements in take-up mechanism for sewing machines, and it consists of the combinations and parts hereinafter more particularly described.

In the drawings illustrating one form of my invention I have shown a take-up mechanism embodying the invention and as the effectiveness of the operation depends, to some extent, upon the proper relation of the needle bar in connection therewith I have shown such a needle bar in combination with the take-up mechanism.

In these drawings Figure 1 is a front elevation of a machine showing a needle bar and take-up mechanism embodying my invention. Fig. 2 is a side view of the same looking from right to left of Fig. 1. Figs. 3 and 4 are front views of the take-up mechanism which show the parts in different relative positions.

The take-up mechanism proper consists of a rotary member or disk 1 mounted to revolve with the main shaft 2 of the machine to which the necessary rotary motion is given. The rotary member carries pivoted to its outer periphery the movable sleeve 3, a pivot 4 being provided to permit the necessary rotary motion. The take-up bar 5 is pivoted to the frame in any suitable manner, as at 6, and is provided with an operating arm 7 which is adapted to engage and slide in the interior of the sleeve 3. The rotary member is preferably mounted directly behind the reciprocating needle bar 9 and a link 10 connected to the needle bar by the pivoted means 11 is adapted to connect the said needle bar with the pivot or stud 4 on the rotary member, which serves to transmit the necessary reciprocating motion to the needle bar. The movement given to the take-up bar will be readily understood from Figs. 3 and 4, which show the quick take-up movement which occurs when the bar reaches its elevated position as shown in the Fig. 3.

While the take-up bar 5 and the operating arm 7 may be rigidly connected with each other in any suitable manner, it is preferred that said take-up bar 5 be connected or formed integral with a sleeve 5^a, which rotatably surrounds the pivot point or pivot pin 6, as shown in Fig. 2. Connected to or formed integral with the sleeve 5^a is a narrow web 5^b, with which is connected in any suitable manner the operating arm 7. As shown in Fig. 2 and as indicated by the dotted lines in Fig. 3, the sleeve 3 is formed with an open-ended, narrow slot 3^a, which is of sufficient thickness to receive the

narrow web 5^b as the sleeve 3 slides toward said web. When the parts are in the position shown in Fig. 3, the lower end of the narrow slot 3^a comes in contact with the web 5^b and limits any further sliding movement of the sleeve 3 upon the operating arm 7. It will be seen, therefore, that the web 5^a, in conjunction with the slot 3^a, constitutes means for limiting the sliding movement of the sleeve 3 in one direction upon the operating arm 7, and thus precludes any accidental disarrangement of the operating parts. By connecting the take-up bar 5 with the operating arm 7 by means of the web 5^b, it will be observed that the pivot point 6 can be disposed intermediate the ends of the operating arm 7 and laterally off-set from said arm in such manner that the sleeve 3 can slide partially past the pivot point 6, as shown in Fig. 3. By reason of this arrangement the pivot point 6 can be disposed very close to the periphery of the rotary member 1, and sleeve 3, when in the position shown in Fig. 3, can impart to the take-up bar 5 a very quick movement by reason of the short leverage which the sleeve exercises on the bar.

Many modifications may be made in my invention without departing from the spirit thereof, and I do not limit myself to the particular form shown but

What I claim and desire to secure by Letters Patent is:

1. A take-up mechanism for sewing machines, comprising an operating arm, a pivoted take-up bar connected with said operating arm, the pivot point of said take-up bar being laterally off-set from said operating arm, a rotary member and a pivotal member on said rotary member engaging said operating arm and being adapted to slide partially past the pivot point of said take-up bar, substantially as described.

2. A take-up mechanism for sewing machines, comprising an operating arm, a pivoted take-up bar connected with said operating arm, the pivot point of said take-up bar being disposed intermediate the ends of said operating arm and laterally off-set therefrom, a rotary member, and a sleeve pivotally mounted on said rotary member and slidably engaged with said operating arm, said sleeve being adapted to slide partially past the pivot point of said take-up bar, substantially as described.

3. A take-up mechanism for sewing machines, comprising an operating arm, a pivoted take-up bar, the pivot point of said take-up bar being disposed intermediate the ends of said operating arm and laterally off-set therefrom, a narrow web connecting said operating arm with said take-up bar, a rotary member adjacent the pivot point of said take-up bar, and a sleeve pivoted upon said rotary member and slidably engaged with said operating arm, said sleeve having a narrow slot therein to receive said narrow web, whereby said sleeve can slide partially past the pivot point of said take-up bar, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

PAUL ANSCHÜTZ.

Witnesses:

ADOLPH F. DINSE,
A. C. FISCHER.