

A. LENTSCH.

DEVICE FOR GUIDING AND STRIPPING THREAD ON WINDING FRAMES.

APPLICATION FILED SEPT. 15, 1909.

989,165.

Patented Apr. 11, 1911.

Fig.3

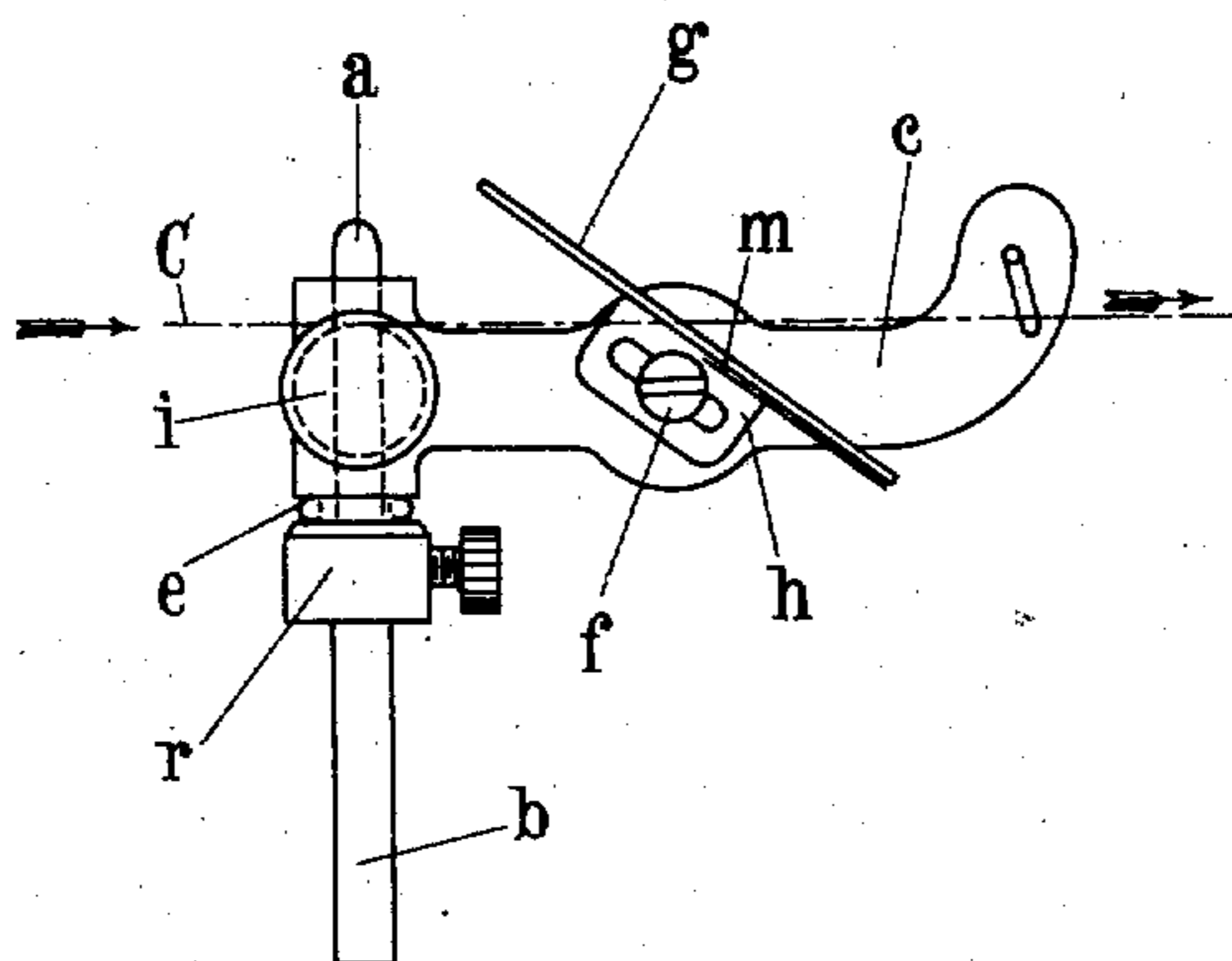


Fig.4

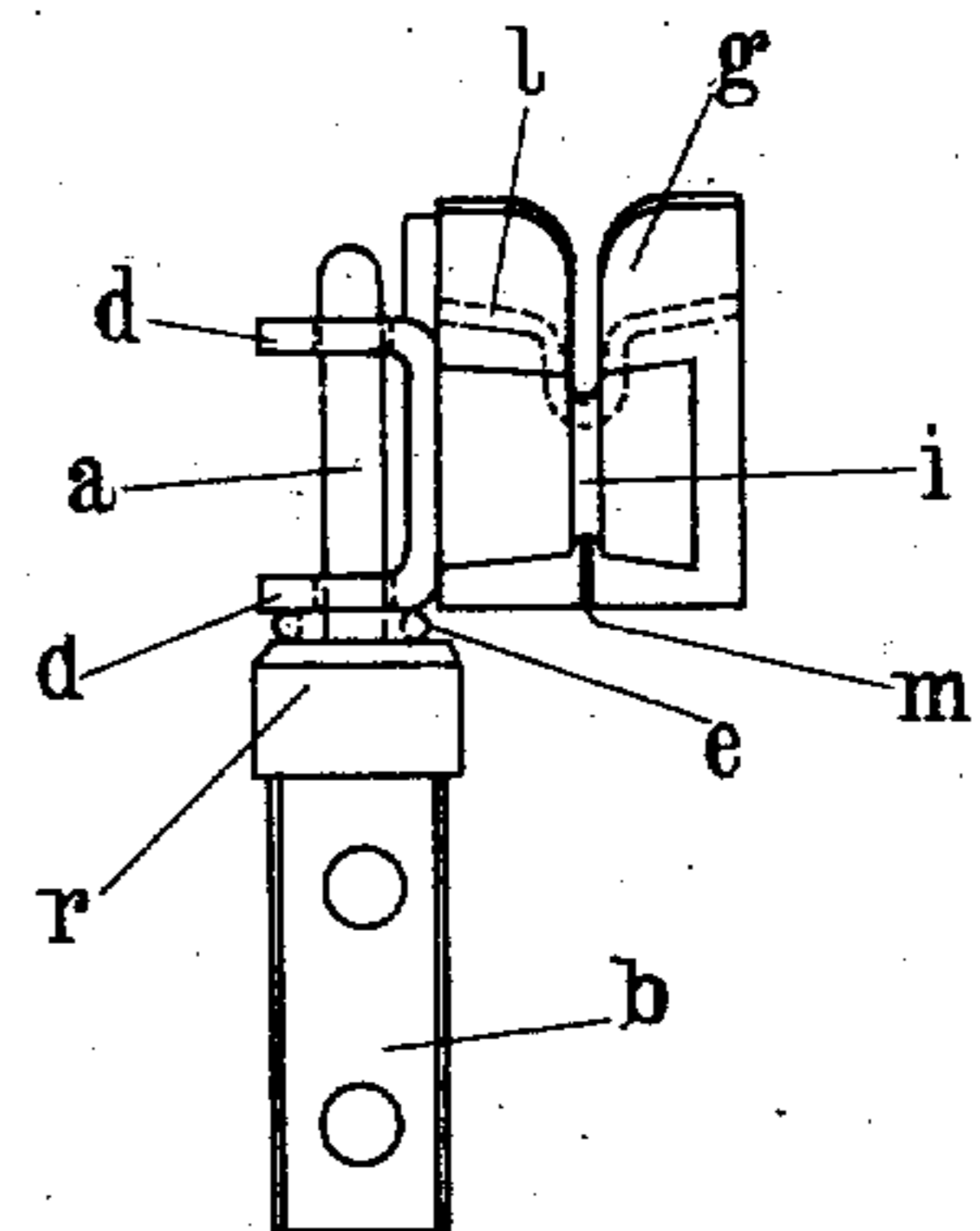


Fig.2.

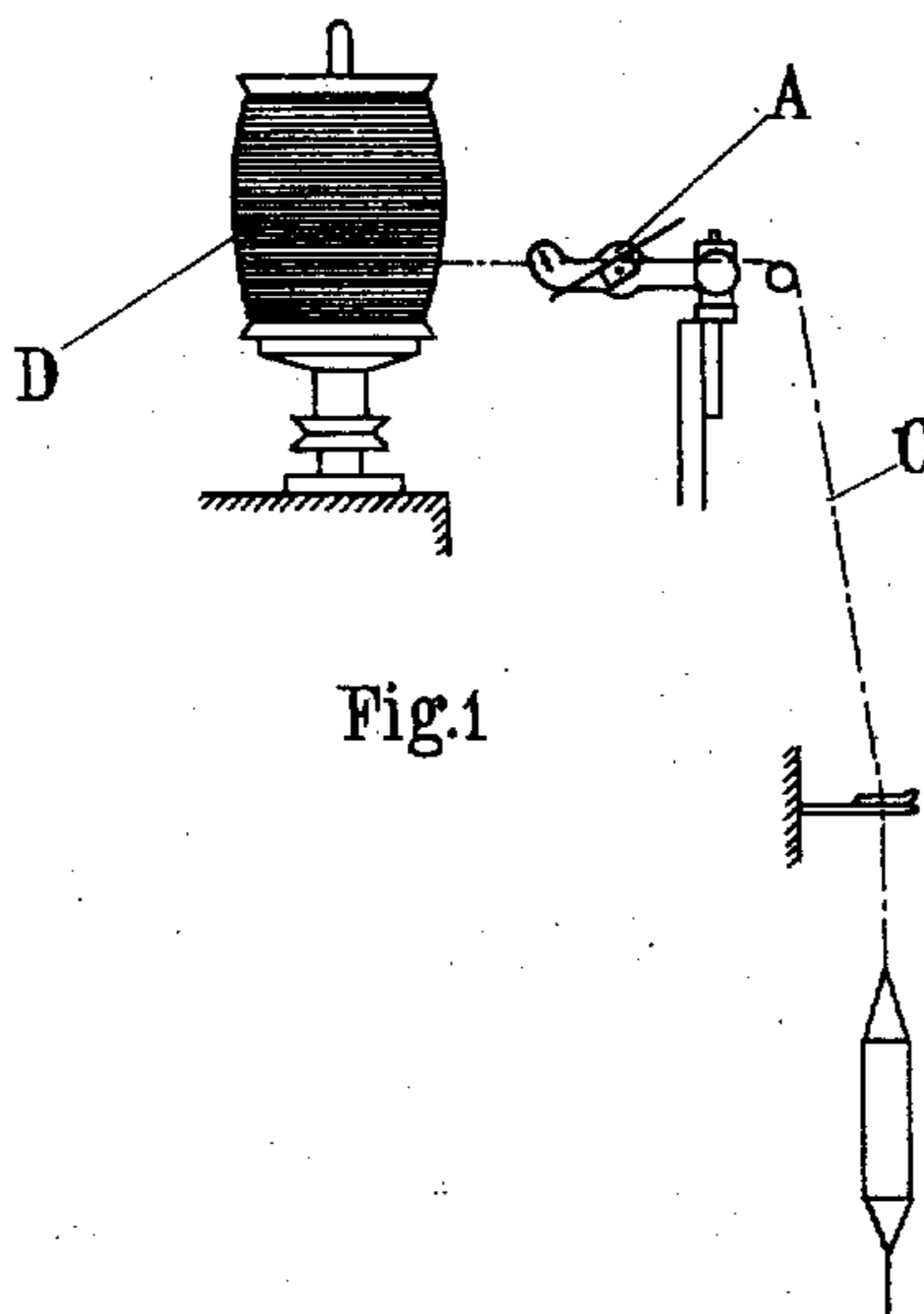
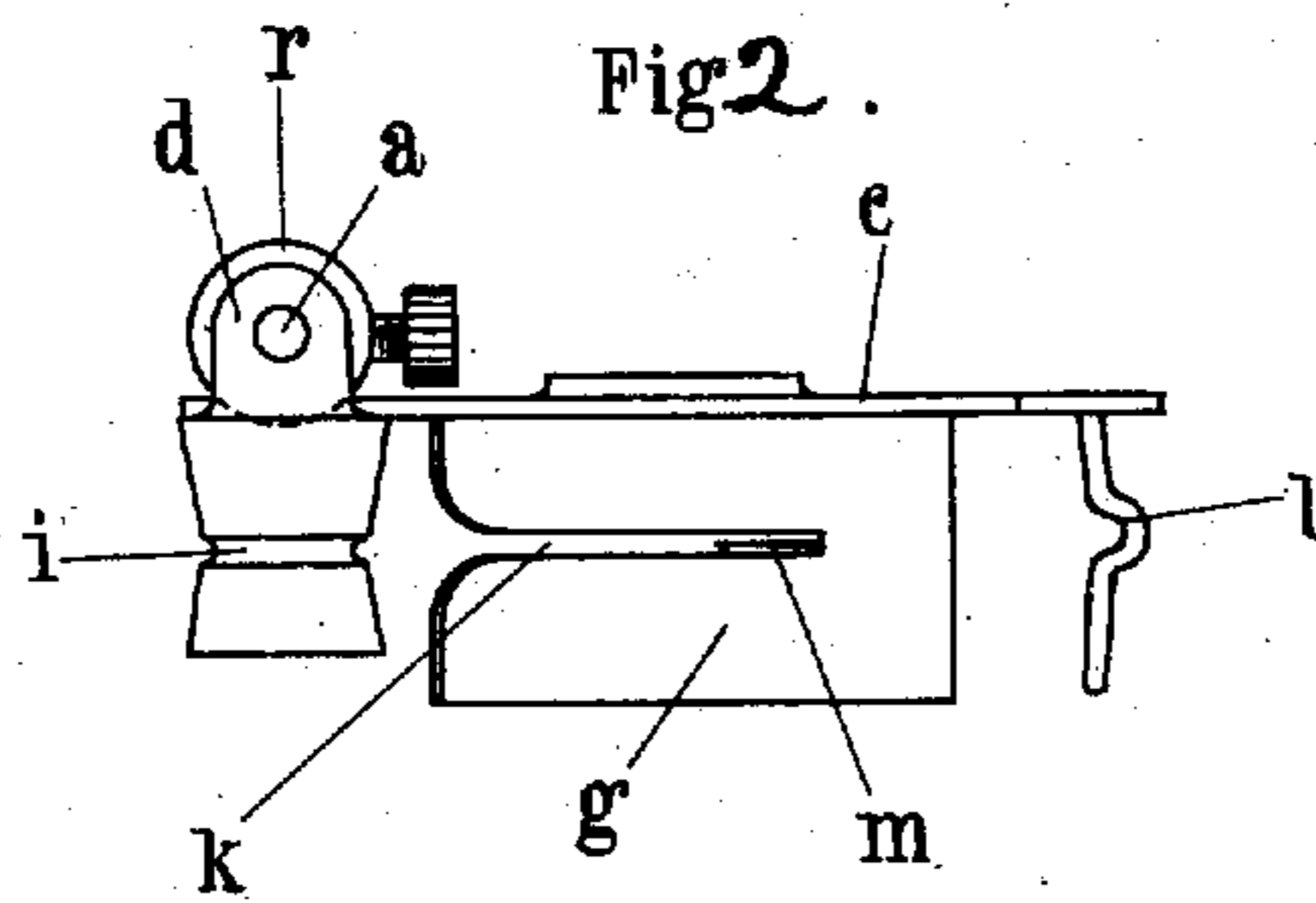


Fig.1

Witnesses.
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UNITED STATES PATENT OFFICE.

ALOIS LENTSCH, OF MÜLHAUSEN, GERMANY.

DEVICE FOR GUIDING AND STRIPPING THREAD ON WINDING-FRAMES.

989,165.

Specification of Letters Patent.

Patented Apr. 11, 1911.

Application filed September 15, 1909. Serial No. 517,762.

To all whom it may concern:

Be it known that I, ALOIS LENTSCH, a subject of the Emperor of Germany, residing at Mülhausen, Alsace, Germany, have
5 invented a new and useful Device for Guiding and Stripping the Thread on Winding-Frames, of which the following is a specification.

This invention has reference to a device
10 for guiding and stripping the thread on winding frames.

The thread guides usually employed consist essentially of a plate which has a slit formed in it to receive the thread, and these
15 guides have the defect that the fluff which becomes entangled with the thread in the spinning operation, forming little lumps or knots in the thread, is not removed in passing through the slit but simply compressed,
20 and the thread emerges from the slit with the lumps or knots flattened.

My invention obviates this defect.

In the accompanying drawing: Figure 1 shows diagrammatically the arrangement of
25 thread guide A, in side elevation, and Figs. 2 to 4 show respectively a plan view, an end view and a side elevation of the said thread guide on a larger scale.

Referring to the drawings: The thread
30 guide A consists of two parts, viz: a spindle *a* which has a downwardly extending flattened extension *b* that is secured by means of two bolts to a suitable part of the winding frame, and a pivotally mounted
35 bracket arm *c*. The arm *c* is stamped out of sheet metal and has at its rear end two lugs *d* bored to receive the spindle *a*. In order to reduce to a minimum the friction caused by the pressure of the arm *c* against
40 the shoulder of the spindle *a*, a glass ring *e* is introduced between the arm and the shoulder. This shoulder is in the form of an adjustable collar *r* which can be set higher or
45 lower to regulate the vertical position of the complete thread guide.

The thread guide proper consists of a plate *g* which serves both as a guide and a

cleaner or stripper; it is formed with a lug
h and mounted on the arm *c* by means of a
screw *f*. The lug *h* has a longitudinal slot
50 formed in it to enable not only the angle at which the plate is set—which as a rule is about 35° to the horizontal—to be varied, but also the height of the plate relatively to
the path of the thread to be regulated. The
55 thread *C* passes over the guide roller *i*, which is mounted on the arm *c*, and then through the slit *k* and over the guide *l* to the bobbin *D*. As the arm *c* is pivotally
mounted it adjusts itself automatically to
60 suit the direction in which the thread is moving, and consequently there is no sharp bending of the thread as it leaves the slit *k*. Knots of fluff or the like in the thread cannot
pass through the slit *k*. Owing to the
65 inclination of the plate *g* such knots are guided down to the bottom of the slit, where they are impaled on the point of a needle *m* mounted on the underside of the plate *g*.

What I claim as my invention and desire
70 to secure by Letters Patent is:

1. A thread guide for winding frames comprising a bracket arm rotatably mounted on a vertical spindle, a plate fixed on the
said arm inclined at an angle to the axis
75 of the said spindle and formed with a slit to guide the thread, and a knot-stripping needle mounted on the said plate at the lower end of the said slit.

2. A thread guide for winding frames
80 comprising an arm rotatably mounted on a vertical axis, a plate formed with a slit to guide the thread and a slot to adapt the said plate to be secured adjustably, by means of
a screw, upon the said arm at a variable
85 height relatively to the said arm and at a variable inclination to the said vertical axis, and a knot-stripping needle mounted on the underside of the said plate at the lower end of the said slit.

ALOIS LENTSCH.

Witnesses:

GEORGE GIFFORD,
ARNOLD ZUBER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."