

J. W. COOK.

LAPPET OR THREAD BOARD FOR SPINNING, DOUBLING, AND TWISTING FRAMES.

APPLICATION FILED MAY 3, 1907.

920,026.

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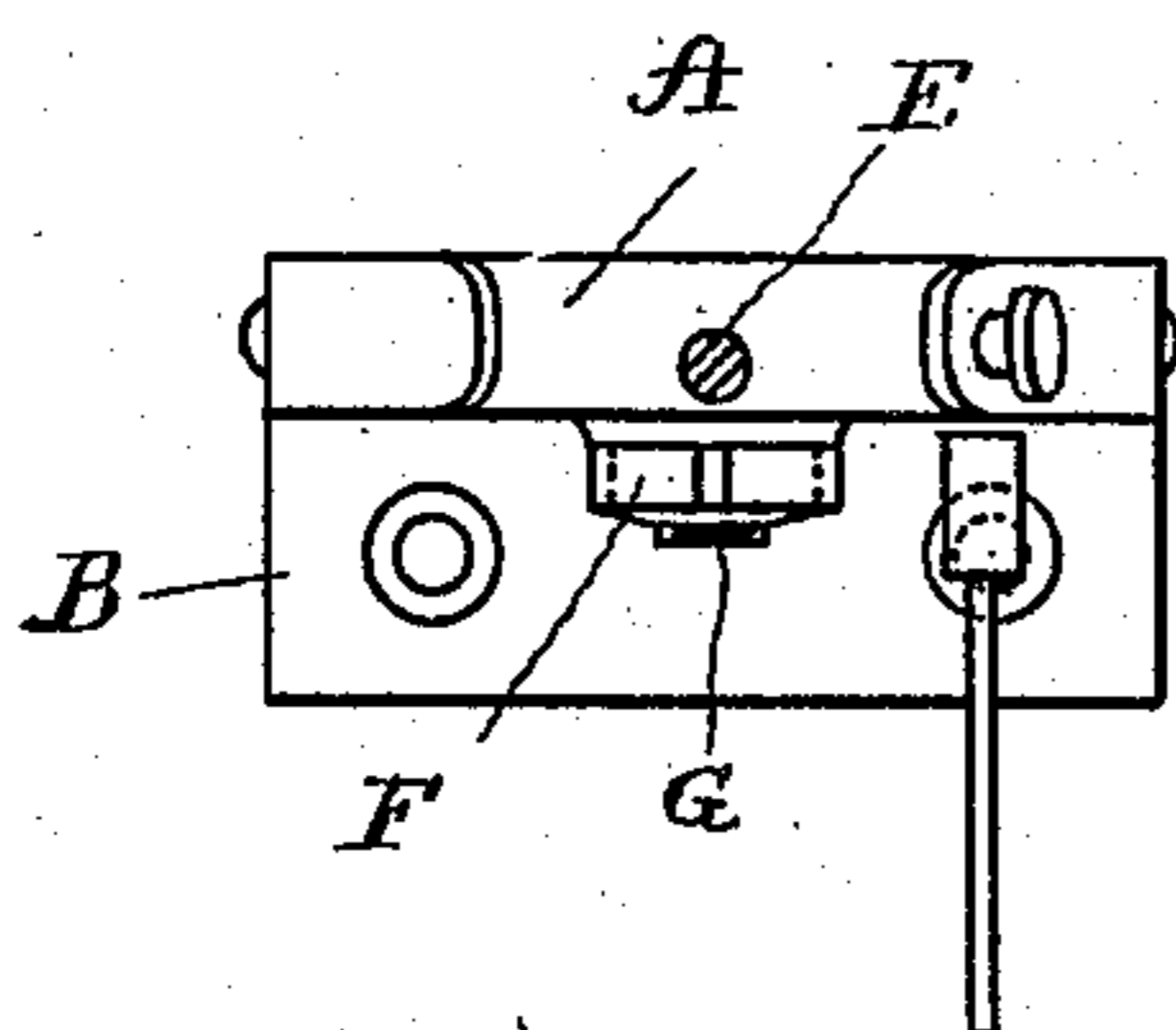


Fig. 1.

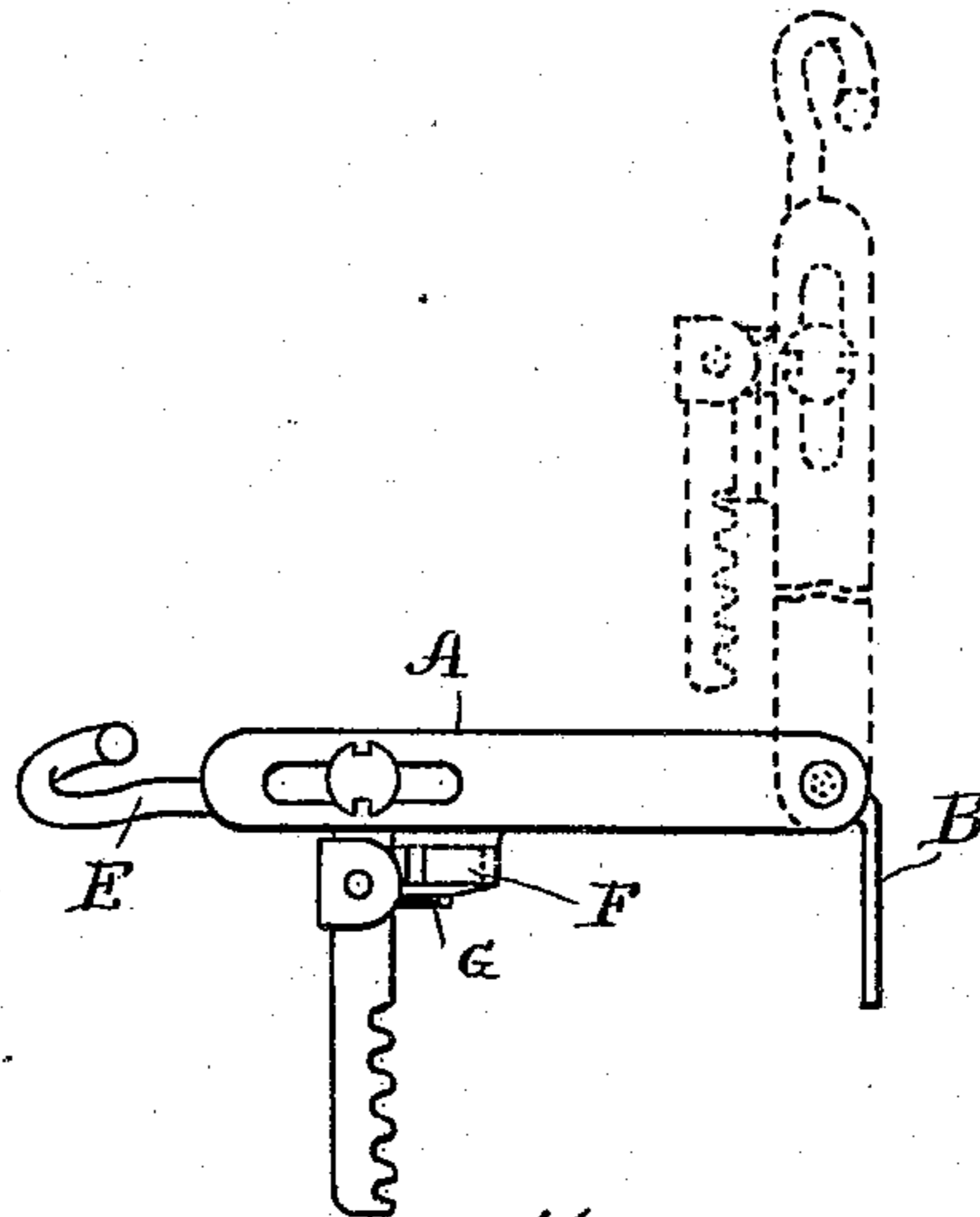


Fig. 2.

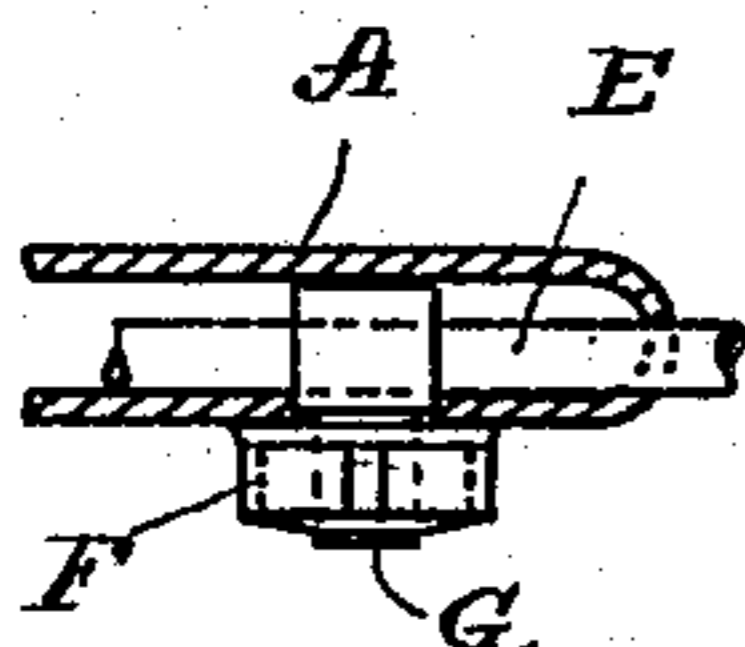


Fig. 5.

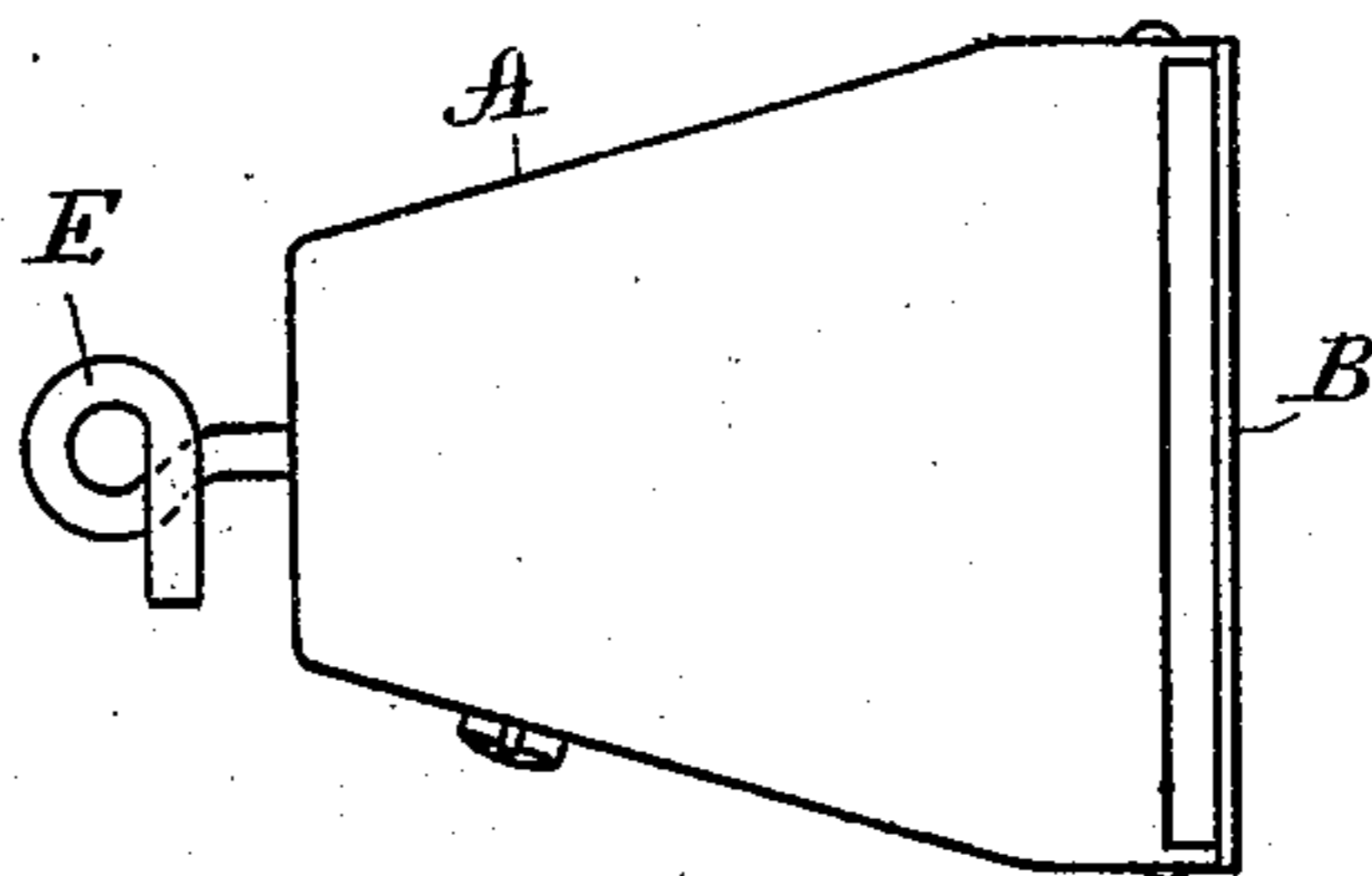


Fig. 3.

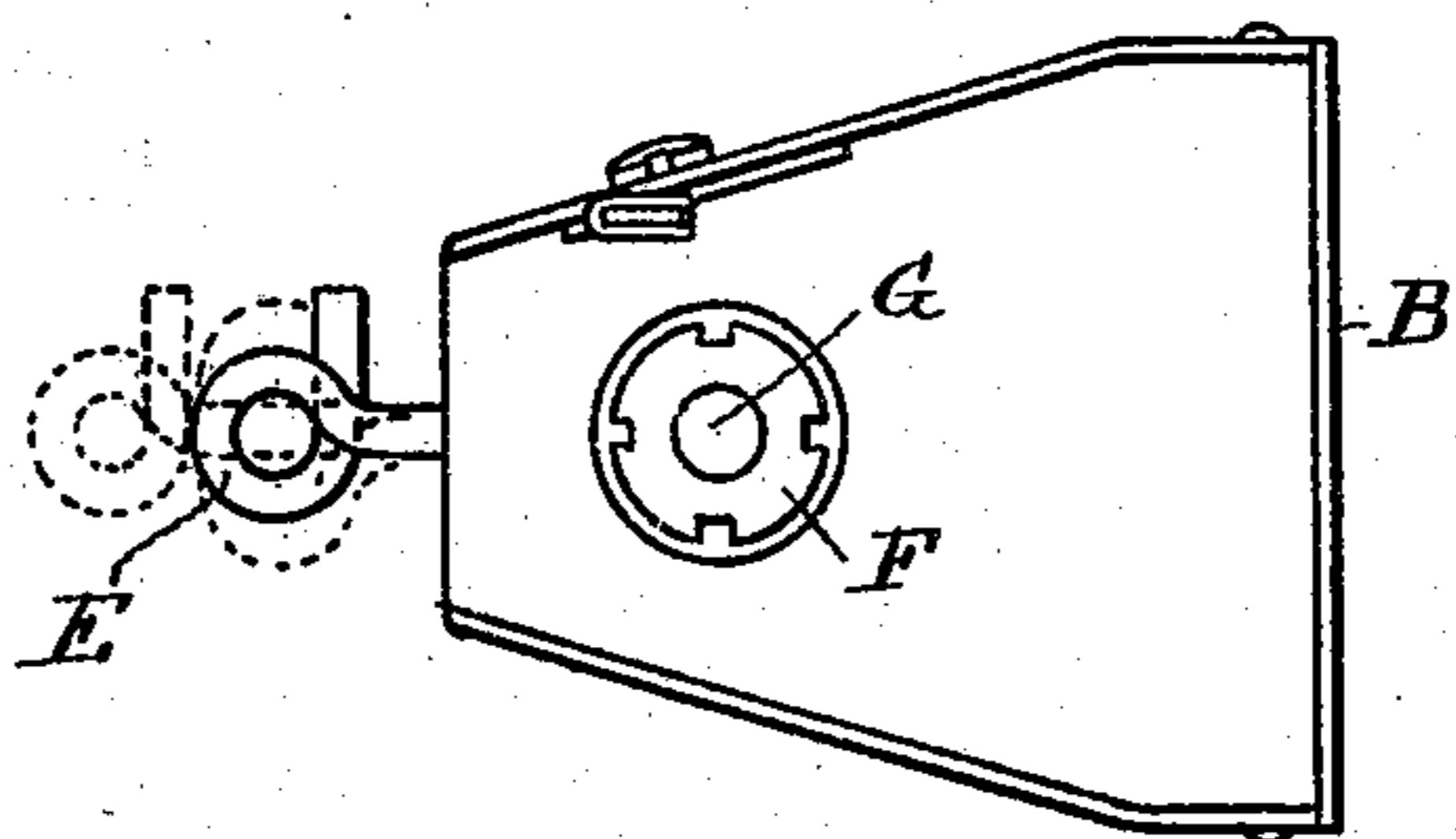


Fig. 4.

Witnesses.
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UNITED STATES PATENT OFFICE.

JOHN WILLIAM COOK, OF DIDSBURY, NEAR MANCHESTER, ENGLAND.

LAPPET OR THREAD-BOARD FOR SPINNING, DOUBLING, AND TWISTING FRAMES.

No. 920,026.

Specification of Letters Patent.

Patented April 27, 1909.

Application filed May 3, 1907. Serial No. 371,733.

To all whom it may concern:

Be it known that I, JOHN WILLIAM COOK, of Didsbury, near Manchester, in the county of Lancaster, England, have invented certain new and useful Improvements in or Connected with Lappets or Thread-Boards for Spinning, Doubling, and Twisting Frames, of which the following is a specification.

This invention relates to the supports for the thread guides of spinning frames, which supports are called thread boards or "lappets," the latter being the term hereinafter employed for brevity.

The usual methods of constructing lappets and applying holding devices for the thread guides to enable the necessary adjustments to be made are open to objection as regards the fluff and dirt retaining faces which they present. Further than this, objection has been taken to certain forms of metal lappets as made hitherto owing to their particular form of construction being inadequate to withstand ordinary wear and tear in consequence of which the lappets have either been bent or in some extreme cases broken.

The object of my present invention is to construct a metallic box-like lappet from a single piece of metal forming the upper, lower and two side walls and front end, the upper and lower walls being formed to support the shank of a thread guide in such a manner that the thread guide can be adjusted and held in any desired position.

To these ends, my invention consists in the construction and combination of parts substantially as hereinafter described and claimed.

Of the accompanying drawings:—Figure 1 represents a front elevation of a lappet embodying my invention, the thread guide being shown in section. Fig. 2 is a side elevation. Fig. 3 is a plan view. Fig. 4 is a view from below, and Fig. 5 is a detail sectional view of the eye-bolt and parts adjacent thereto.

The lappet A is formed from a single piece of metal the body portion of which is bent over upon itself to form the top, front end, and bottom, and the sides of which are bent up to complete the box-like structure. The ends of the sides are projected somewhat and

have openings formed therein for the reception of the ends of the pintle of the hinge B. Said hinge B is in turn attached to the usual filleting of the spinning, doubling or twisting machine, and closes the inner end of the box-like structure.

The outer curved end of the lappet A is formed with a hole of sufficient size to allow the shank of the thread guide E to move freely in and out. To retain the thread guide in position its shank passes through an eye bolt G which passes through a slot in the lower face of the lappet A and is provided with a suitably shaped nut F. The nut F as shown in Fig. 4, is provided with notches or indentations into which a specially shaped key can be fitted to turn it, but I do not confine myself solely to this form of nut. The slot through which the eye bolt passes is of sufficient size to allow lateral adjustment of the said eye bolt. When the nut F is screwed up it draws the bolt G downward and causes the shank of the guide E to be clamped tightly against the flat smooth upper face of the lower half of the lappet over an extended area of said face from the hole in the forward end to the eye bolt, as shown in Fig. 5. When it is necessary to adjust the thread guide longitudinally, the nut F is unscrewed and the shank of the thread moved inward or outward. Should lateral adjustment be necessary the end of the thread guide is moved into the position desired, the shank causing the eye bolt to move in an opposite direction in the slot cut in the lower face of the lappet the fulcrum of the thread guide and shank being the edge of the hole in the outer end of the lappet.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A lappet for spinning, doubling and twisting machines formed from a single piece of metal the body portion of which is bent over upon itself to form the top, bottom and one end thereof, and the sides of which are bent up to complete a box-like inclosure.

2. A lappet for spinning, doubling and twisting machines formed from a single piece of metal the body portion of which is bent

over upon itself to form the top, bottom and one end thereof, and the sides of which are bent up to complete a box-like inclosure, the ends of said sides being projected and each having an opening for the reception of a hinge pintle, the hinge closing the other end of the lappet, and a thread guide projected through one end of said lappet and being

provided with means whereby it may be adjusted either laterally or longitudinally. 10

In testimony whereof I have affixed my signature, in presence of two witnesses.

JOHN WILLIAM COOK.

Witnesses:

FRANK THASMITTE,
JOHN JOWETT.