

(No Model.)

2 Sheets—Sheet 1.

H. M. WEAVER.
SELF BINDING HARVESTER.

No. 338,809.

Patented Mar. 30, 1886.

FIG. 1.

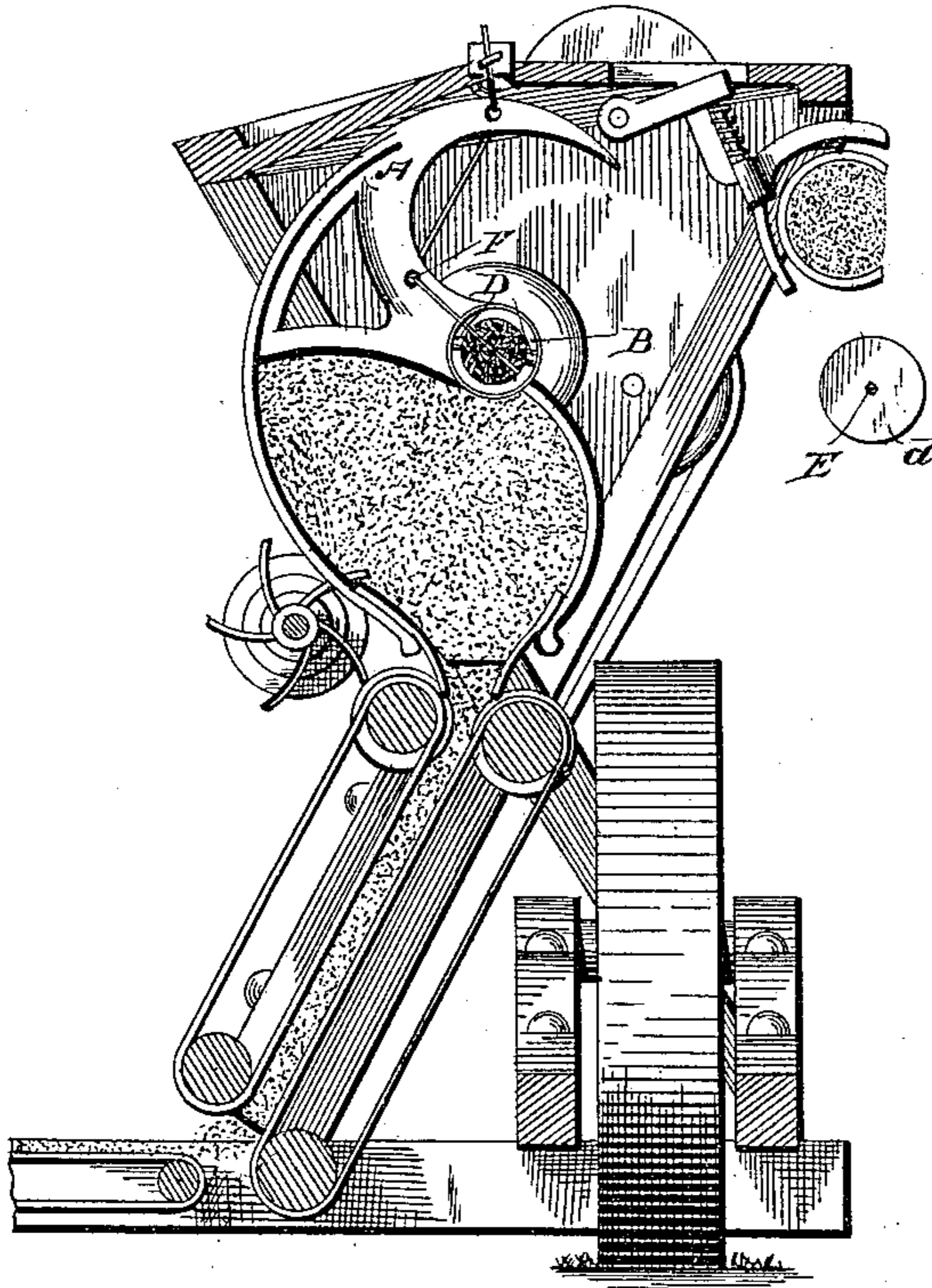
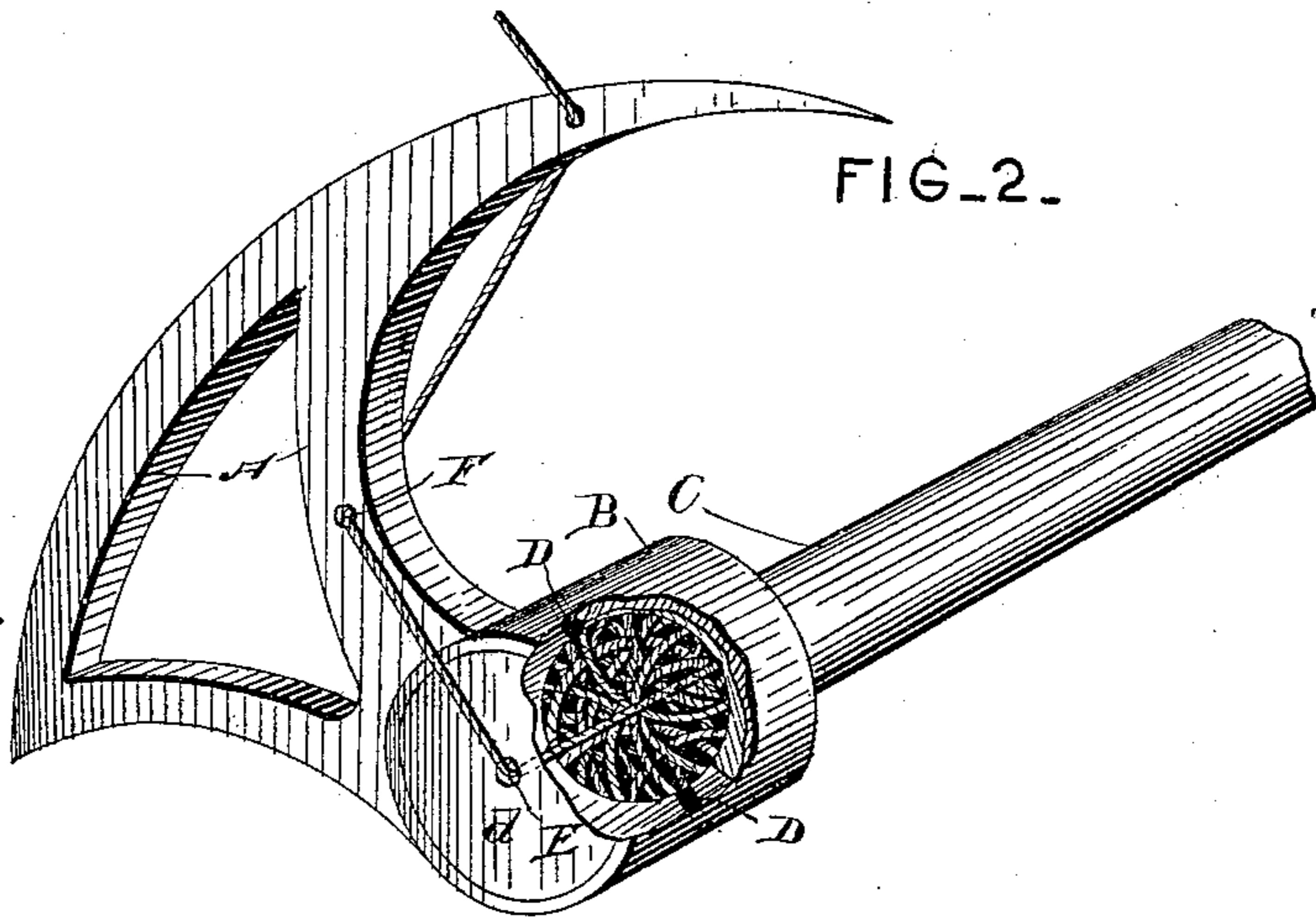


FIG. 2.



WITNESSES

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FIG. 4.

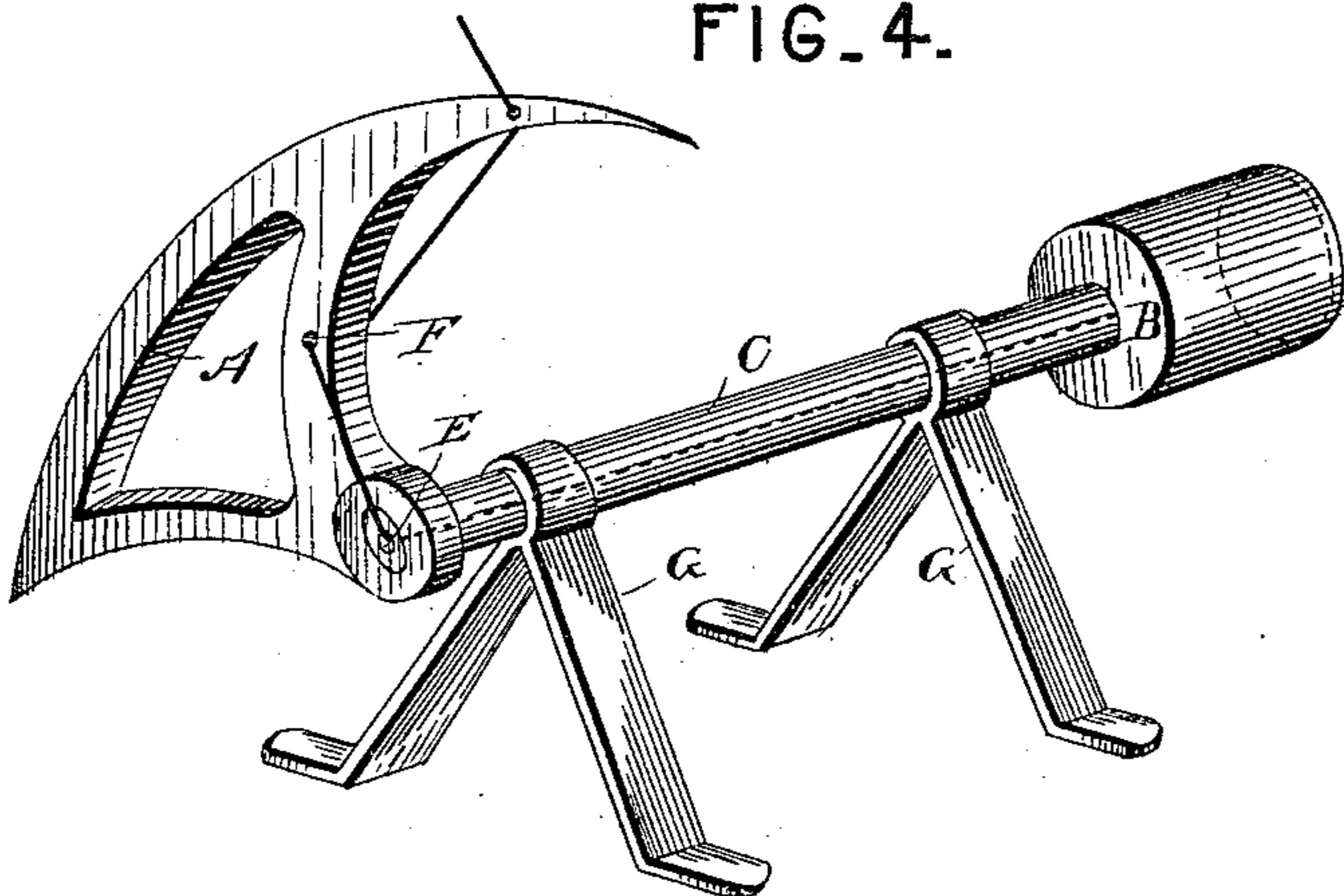


FIG. 3.

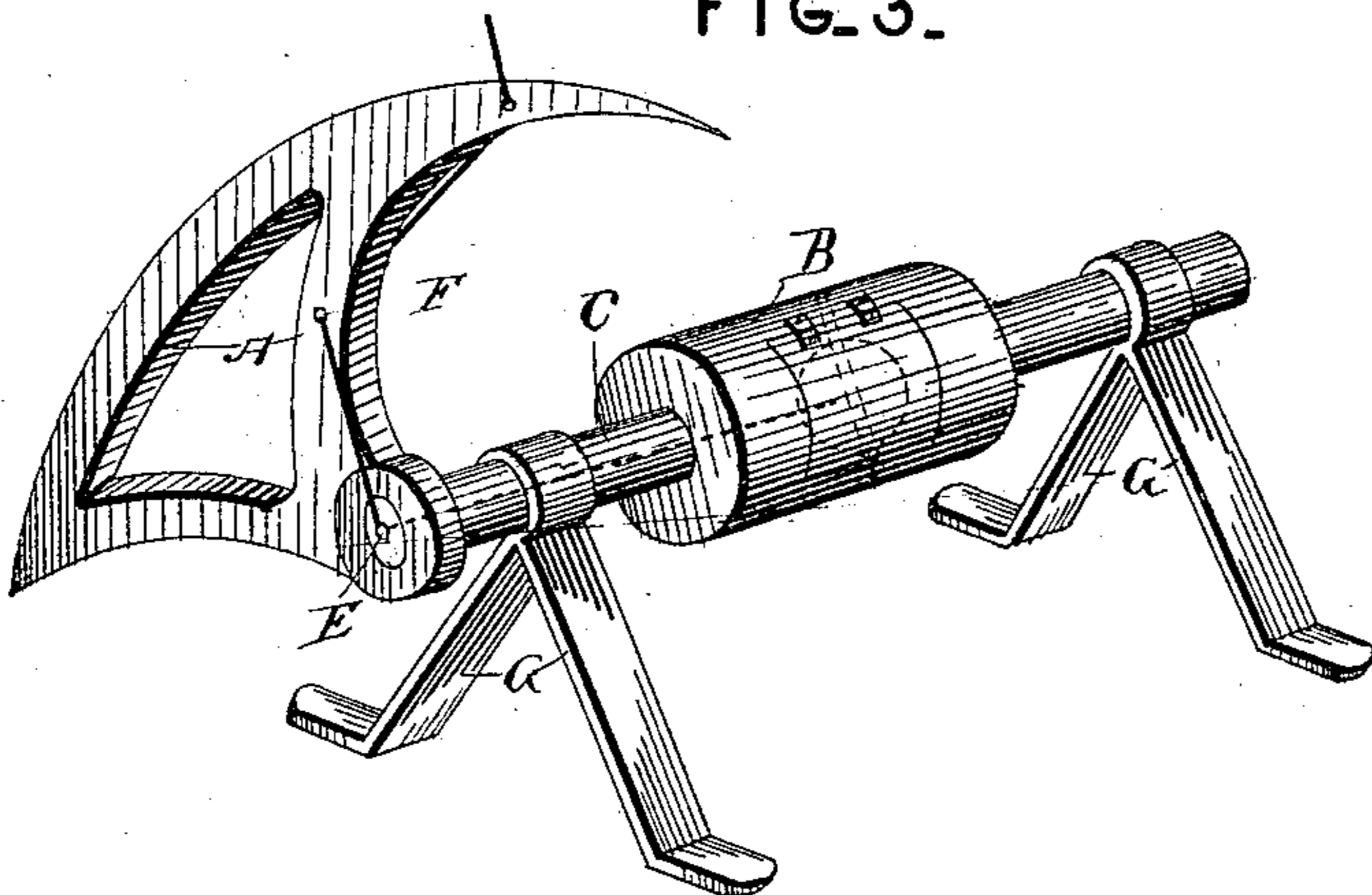
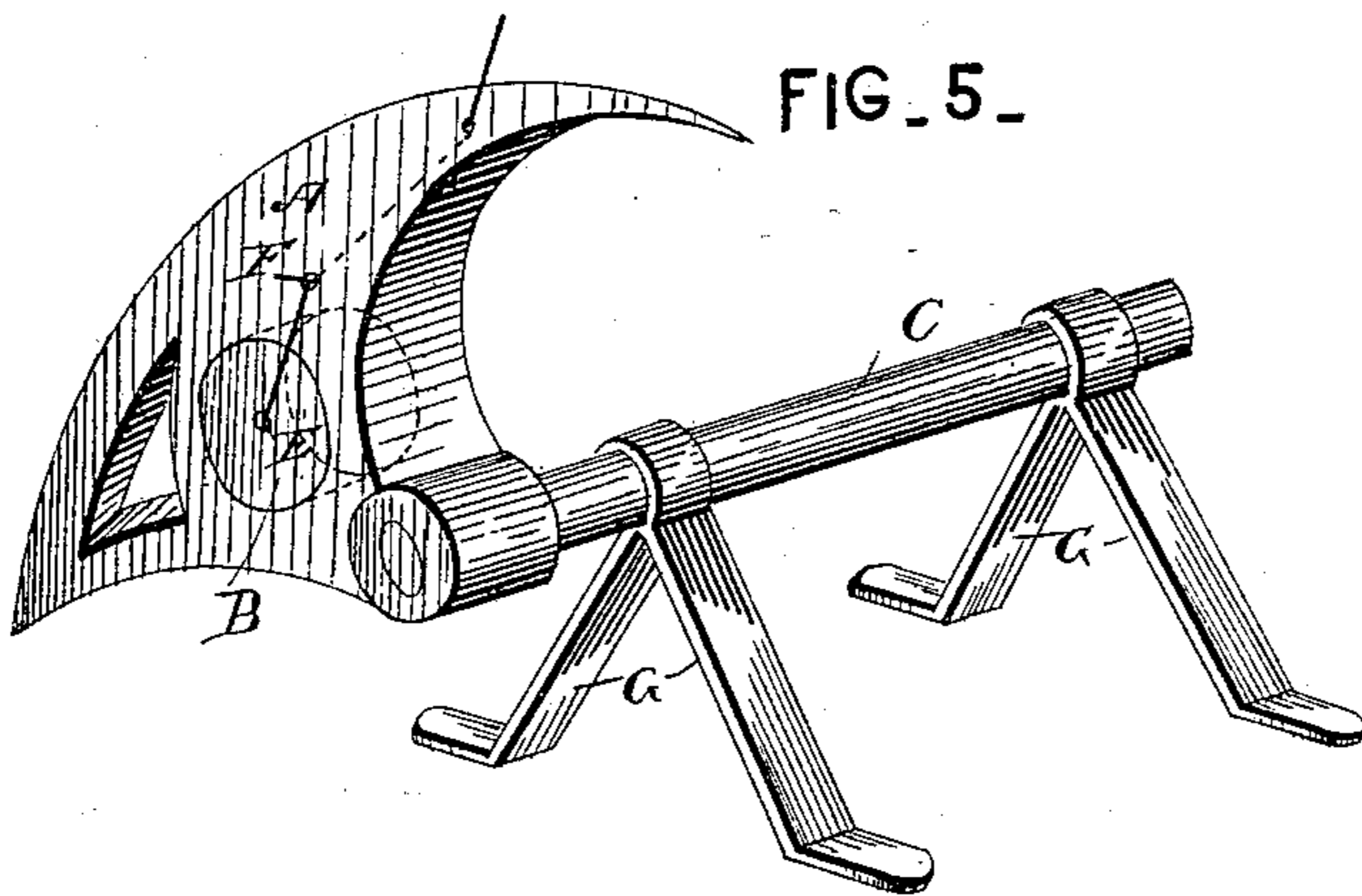


FIG. 5.



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UNITED STATES PATENT OFFICE.

HENRY M. WEAVER, OF MANSFIELD, OHIO.

SELF-BINDING HARVESTER.

SPECIFICATION forming part of Letters Patent No. 338,809, dated March 30, 1886.

Application filed August 23, 1884. Serial No. 141,292. (No model.)

To all whom it may concern:

Be it known that I, HENRY M. WEAVER, of Mansfield, in the county of Richland and State of Ohio, have invented certain new and useful Improvements in Self-Binding Harvesters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in self-binding harvesters, and particularly to an improvement in the construction of the binder-arm and cord-receptacle, the object of the same being to provide a binder-arm and cord-receptacle of such construction and so related to each other that the rotation of the binder-arm will not twist the cord, and the cord will be prevented from any liability to become tangled in the several parts of the machinery.

With these ends in view my invention consists in certain features of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view of the binder-arm and cord-receptacle attached to the binding mechanism. Fig. 2 is a detached view of the binder-arm and cord-receptacle. Figs. 3, 4, and 5 represent modifications.

A represents a binder-arm. The functions of this arm, its general shape, and the manner in which it operates, are fully set forth in Letters Patent No. 269,491, granted to me December 19, 1882.

My present invention consists in providing a cord-receptacle which shall revolve with the arm.

In Figs. 1 and 2 B represents a hollow hub secured to a rotary shaft, C, and having the binder-arm A secured rigidly thereon. Within the hub B a reel, D, or other suitable device for holding the cord and paying it out readily, is located; or the ball of cord may be placed in the hollow hub without any reel or other support. A cover, *d*, is constructed to close the end of the cord-receptacle or said hollow hub. From this receptacle the cord leads through a suitable perforation, E, in

the arm A, and thence through the eye F of said arm.

By means of the above construction the reel on which the cord is wound, or the ball of cord, is caused to rotate with the arm, and the twisting of the cord, which has hitherto proved objectionable on account of its tending to weaken it and cause it to "kink," is avoided. The above construction is also compact, and admits of the use of either a solid or hollow shaft, C.

The construction represented in Fig. 3 consists in making the cord-receptacle form a part of the binder-arm shaft, located near the end which carries the binder-arm, the portion of said shaft between the cord-receptacle and binder-arm being hollow and sufficiently long to rest in suitable bearings, G. The portion of the shaft C on the opposite side of the cord-receptacle from the binder-arm may be either solid or hollow. In this case the cord leads from the receptacle out the end of the shaft and through the perforation E and eye F, as before shown.

In Fig. 4 the cord-receptacle is located on the opposite end of the shaft C from the binder-arm. The shaft is hollow, and the cord leads through it and the binder-arm, as before shown.

In Fig. 5 the cord-receptacle is formed in the binder-arm at a point between the shaft and eye, preferably near the shaft; where the arm is larger.

It is evident that slight changes may be made in the construction and arrangement of the parts above described without departing from the spirit and scope of my invention—as, for example, the cord-receptacle represented in Fig. 2 might be secured to the end of a central shaft, and the binder-arm hub encircle the said receptacle and be secured to a sleeve fitting on the said central shaft; hence I do not wish to limit myself strictly to the construction herein set forth; but,

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

1. The combination, with a binder-arm, of a cord-receptacle located within said arm, substantially as set forth.

2. The combination, with a binder-arm, of
a cord-receptacle located within the hub of
said arm, substantially as set forth.

3. The combination, with a revolving bind-
5 er-arm, of a cord-receptacle located within
said arm and caused to rotate therewith, sub-
stantially as set forth.

In testimony whereof I have signed this
specification in the presence of two subscribing
witnesses.

HENRY M. WEAVER.

Witnesses:

J. P. HENRY,

C. A. WERTMAN.