

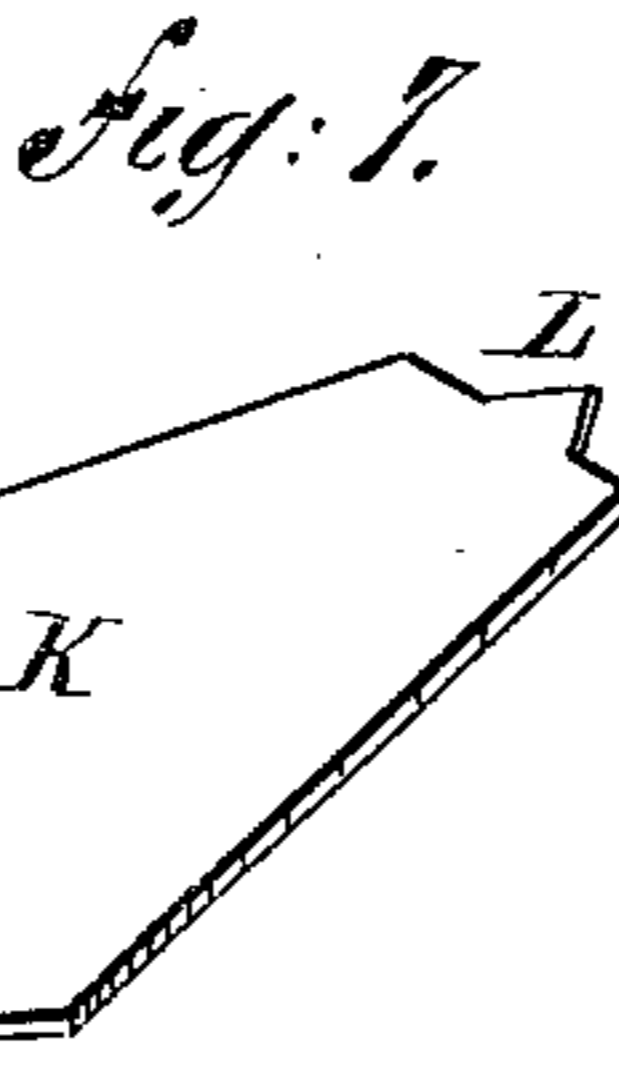
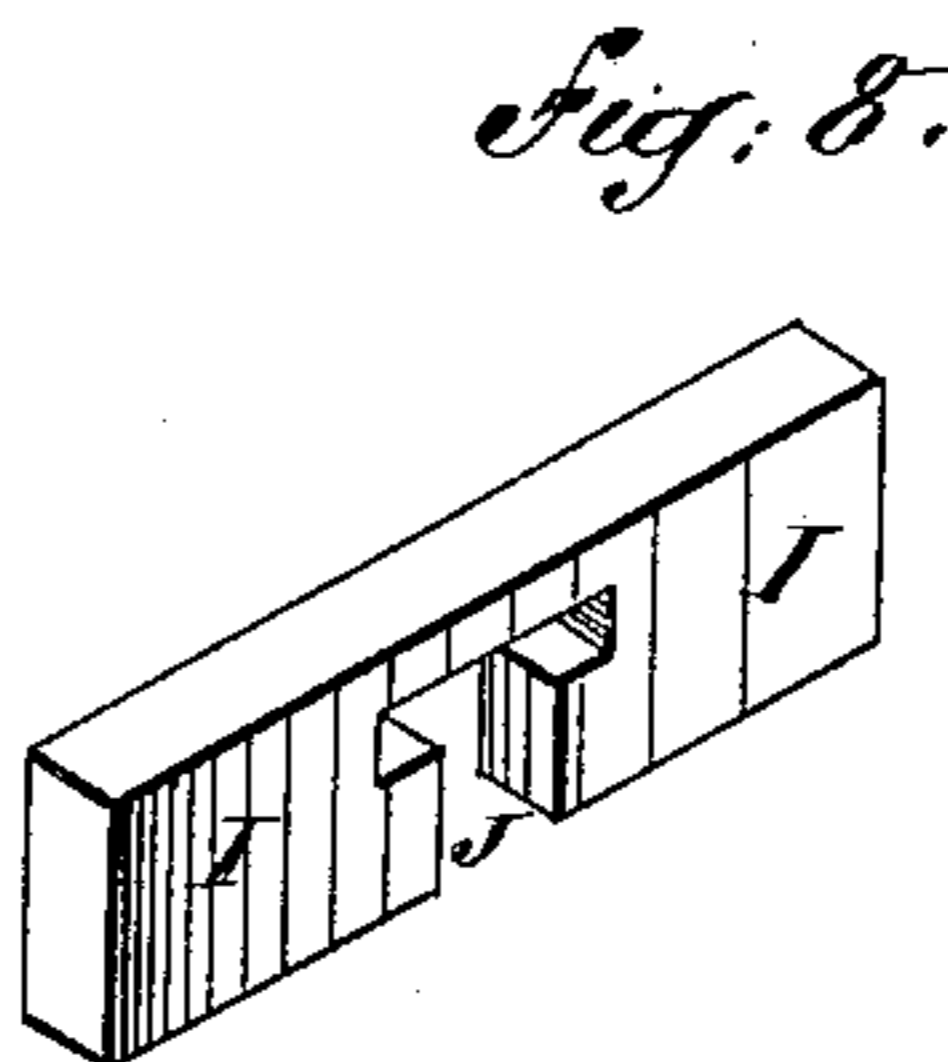
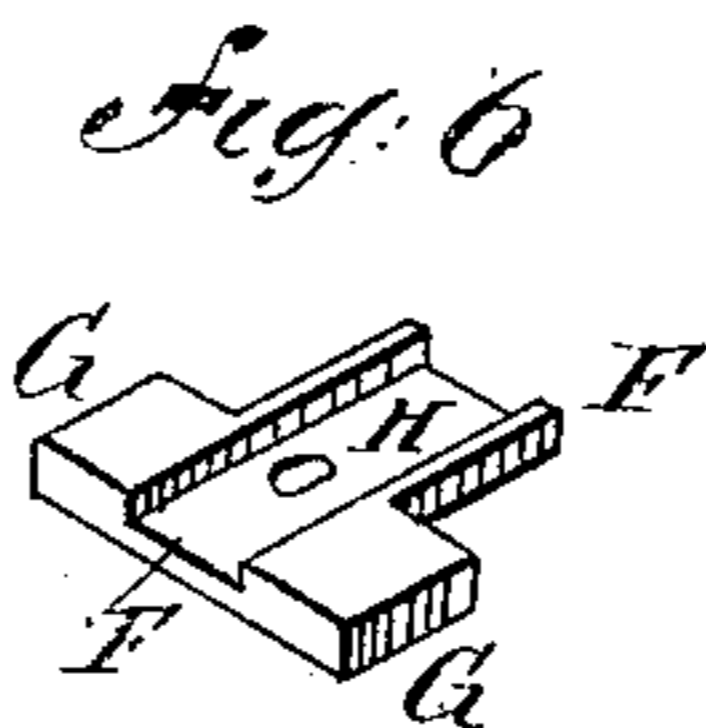
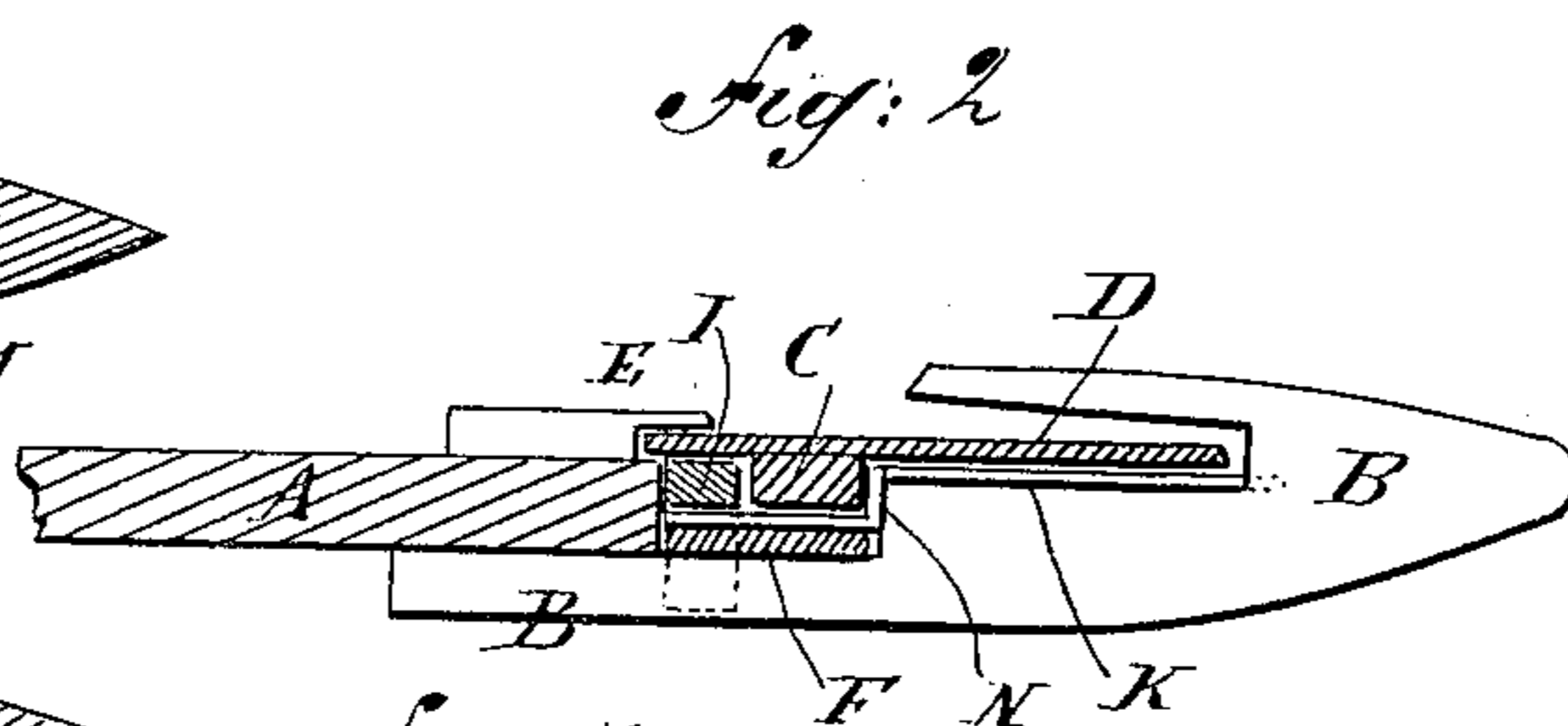
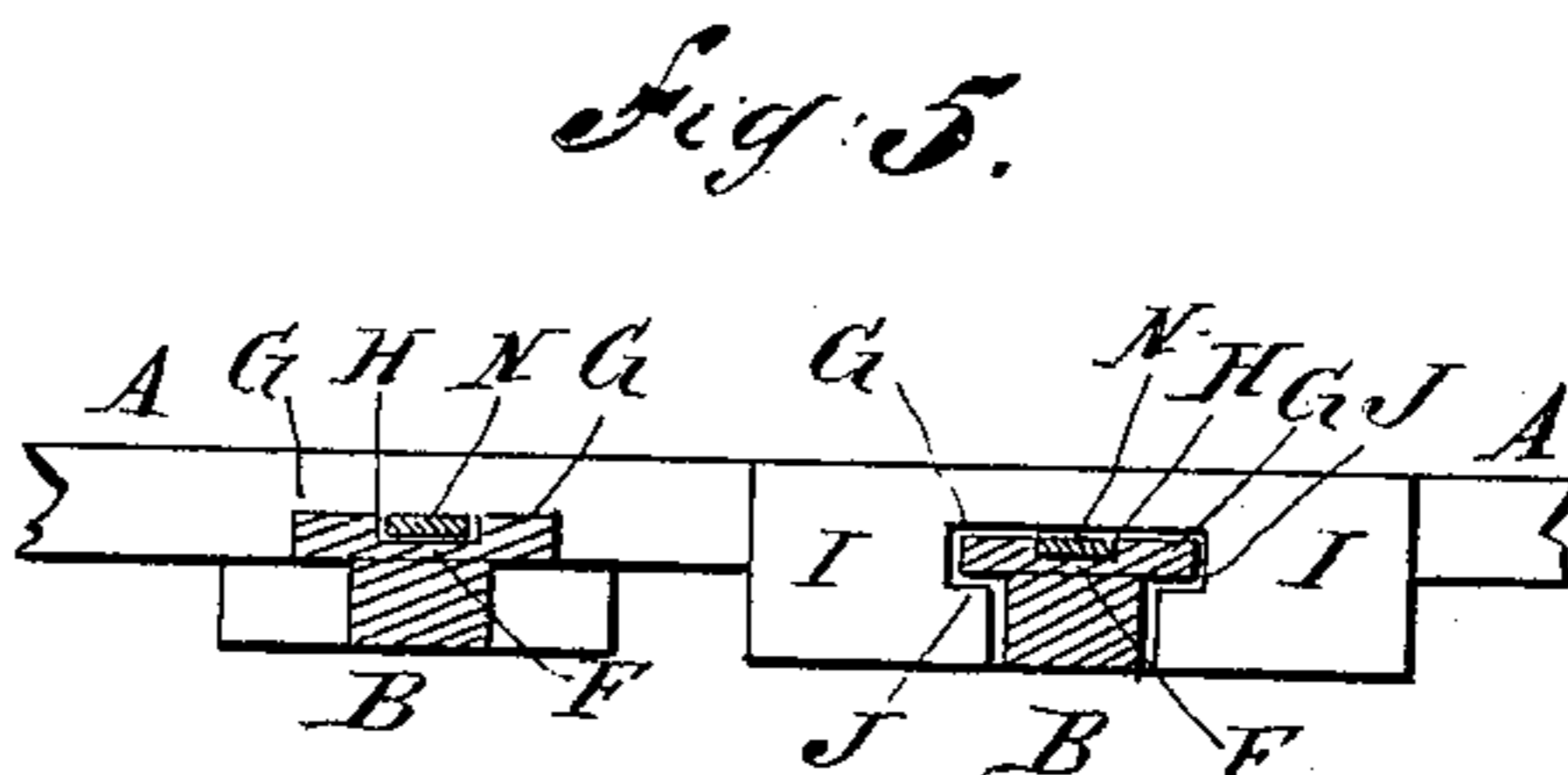
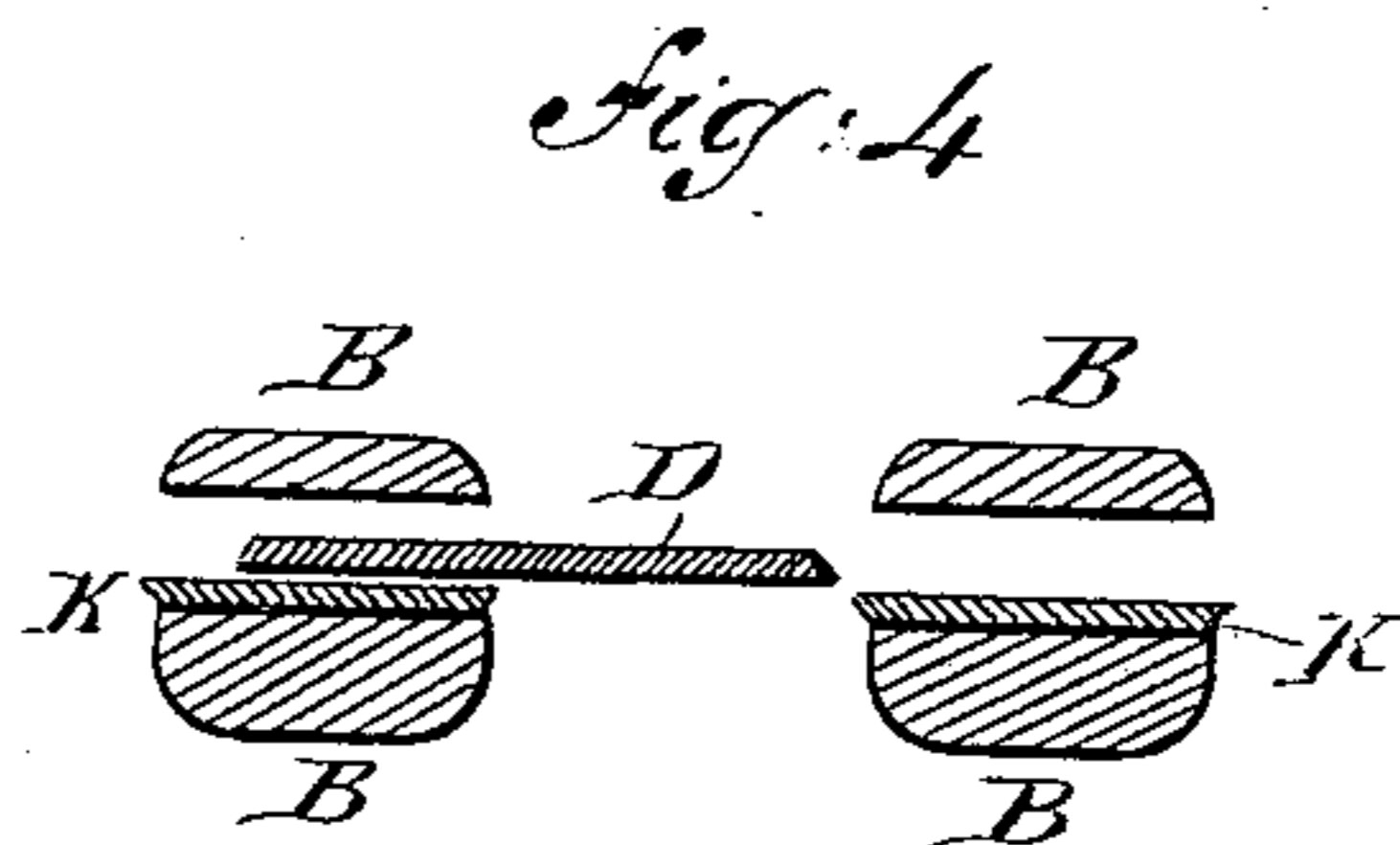
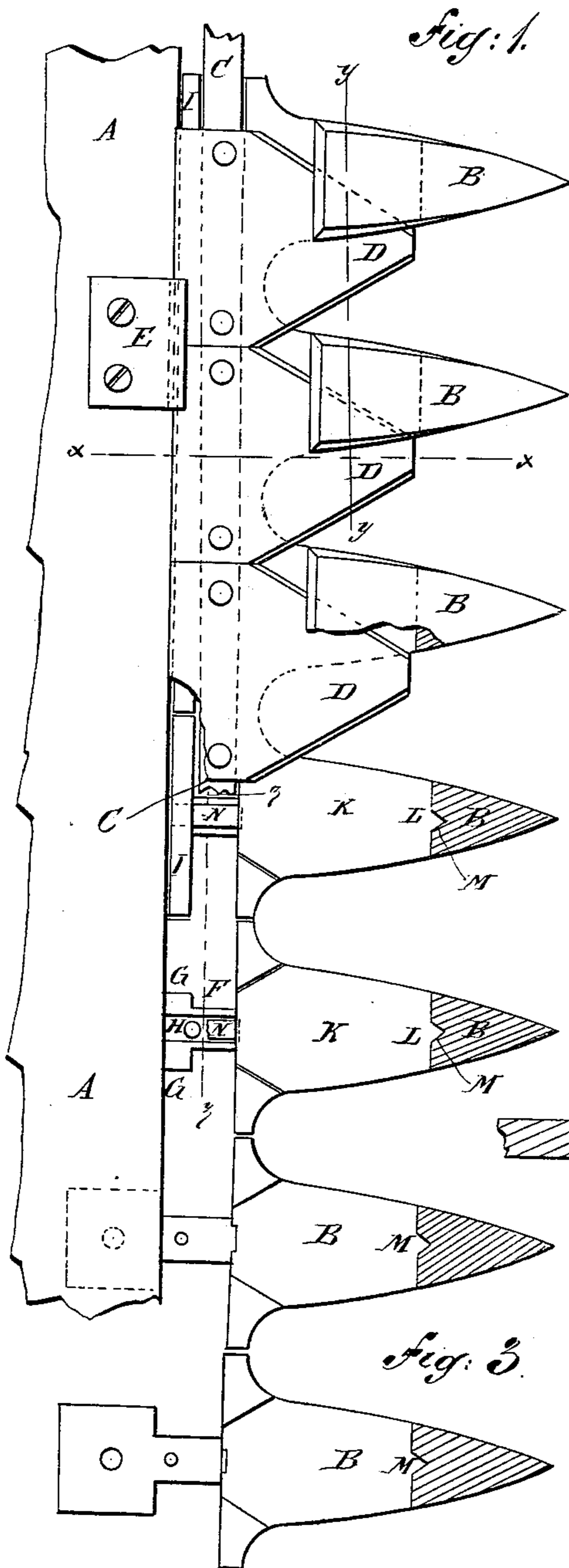
(No Model.)

J. M. L. GORE.

CUTTING APPARATUS FOR MOWERS AND REAPERS.

No. 329,641.

Patented Nov. 3, 1885.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN MARSHALL LOCKHEART GORE, OF RAYMOND, KANSAS.

CUTTING APPARATUS FOR MOWERS AND REAPERS.

SPECIFICATION forming part of Letters Patent No. 329,641, dated November 3, 1885.

Application filed January 23, 1885. Serial No. 153,725. (No model.)

To all whom it may concern:

Be it known that I, JOHN MARSHALL LOCKHEART GORE, of Raymond, in the county of Rice and State of Kansas, have invented certain new and useful Improvements in Cutting Apparatus for Mowers and Reapers, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view, partly in section, and parts being broken away, of a cutter-bar to which my improvement has been applied. Fig. 2 is a sectional end elevation of the same, taken through the line *x x*, Fig. 1. Fig. 3 is a sectional plan view of one of the fingers. Fig. 4 is a sectional front elevation of two adjacent fingers, two stationary cutters, and a sickle, taken through the line *y y*, Fig. 1. Fig. 5 is a sectional front elevation of two adjacent fingers, taken through the line *z z*, Fig. 1, and showing a part of the finger-bar and a section of the wear-bar. Fig. 6 is a perspective view of a grooved and flanged plate for holding in place a shank of a stationary cutter and a section of the wear-bar. Fig. 7 is a perspective under side view of one of the stationary cutters. Fig. 8 is a perspective view of a section of the wear-bar.

The object of this invention is to provide cutting apparatus for mowers and reapers, constructed in such a manner that the wear of the sickle-bar can be readily taken up and the sickles thus kept in proper position.

A further object of this invention is to allow the stationary cutters to be readily removed, sharpened, and replaced.

The invention relates to a cutting apparatus for mowers and reapers, constructed with flanges upon the shanks of its fingers to engage with T-grooves in the sectional wear-bar placed upon the said finger-shanks between the forward edges of the finger-bar and the rear side of the sickle-bar, whereby the wear can be readily taken up. The stationary cutters are made with points upon their forward ends to engage with recesses in the fingers at the forward ends of their slots, and with bent

shanks upon their rear ends to enter grooves in the finger-shanks, where they are held in place by the wear-bar, whereby the said cutters can be readily detached and replaced, and will be securely held in place, as will be hereinafter fully described and then claimed.

A represents the finger-bar, to which the fingers B are secured in the ordinary manner. C is the sickle-bar, which slides upon the shanks of the fingers B at the front of the finger-bar A, and to which the sickles D are bolted, with their rear ends projecting a little to the rear of the said sickle-bar C, as shown in Figs. 1 and 2. The sickles D and the sickle-bar C are held down to their places by keepers E, attached to the finger-bar A, or by other suitable means. To the shanks of the fingers B, between the shoulders of the said fingers and the forward edge of the finger-bar A, are secured plates F, the forward parts of which are made of the same width as the said shanks. The side edges of the rear parts of the plates F are extended to form flanges G, as shown in Figs. 1, 5, and 6. In the upper sides of the plates F are formed grooves H to receive the shanks of the stationary cutters, hereinafter described. Preferably the flanges G will be formed solid upon the shanks of the fingers B and the grooves H formed in the upper sides of the said shanks. Into the space between the rear side of the sickle-bar C and the forward edge of the finger-bar A is fitted the wear-bar I, which is made in sections, each section being made of such a length that when its center is upon the central line of a finger its ends will be at points midway between the said finger and the adjacent fingers, as shown in Figs. 1 and 5. In the lower side of the center of each section of the wear-bar I is formed a T-groove, J, the body of which is made of such a width as to receive and fit upon the narrow part of the shank of the finger B. The arms of the T-groove J are made of such a size as to receive and fit upon the flanges G of the said finger-shank, as shown in Fig. 5, so that the sections of the wear-bar I will be held securely in place when moved back against the edge of the finger-bar A. With this construction the sections of the wear-bar can be readily removed when the

sickle-bar C has been detached by moving them forward to the narrow parts of the shanks of the fingers B, and can be replaced by placing them upon the narrow parts of the finger-shanks, and then moving them back against the edge of the finger-bar A. With this construction also, when the sickle-bar C and the wear-bar I wear so that the said sickle-bar becomes loose, the wear can be taken up by inserting a packing of leather or other suitable material between the edge of the finger-bar A and the rear side of the wear-bar I.

K are the stationary cutters, which are placed in the lower parts of the slots in the fingers B, and have points L upon their forward ends to enter recesses M in the said fingers B at the forward ends of their slots, and hold the said forward ends of the said cutters K from lateral movement. Upon the rear ends of the stationary cutters K are formed shanks N, which are bent downward and then rearward at right angles, so as to fit into the grooves H of the finger-shanks and be held in place by the wear-bar I, as shown in Figs. 1, 2, and 5. With this construction the stationary cutters K will be held securely in place, and can be readily detached and sharpened or replaced with new cutters without its being necessary to detach the fingers.

Having thus described my invention, what I

claim as new, and desire to secure by Letters Patent, is—

1. In a cutting apparatus for mowers and reapers, the combination, with the shanks of the fingers B, having flanges G, the finger-bar A, and the sickle-bar C, of the sectional wear-bar I, having T-grooves J, substantially as herein shown and described, whereby the wear can be readily taken up, as set forth.

2. In a cutting apparatus for mowers and reapers, the finger-bar A, and the fingers B, having their shanks provided with grooves H and flanges G, in combination with the fixed cutters K, having shanks N resting in the grooves H, sectional wear-plates I, having T-grooves J, the walls of the arms of which hold the shanks N in place, and the sickle-bar C in front of the sectional wear-plates, substantially as set forth.

3. The combination, with the finger-bar, and the finger having a shank provided with side flanges, of the stationary cutter provided with shanks resting on finger-shanks, and the wear-plate having a T-groove adapted to receive the flanged finger-shank and the cutter-shank, substantially as set forth.

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