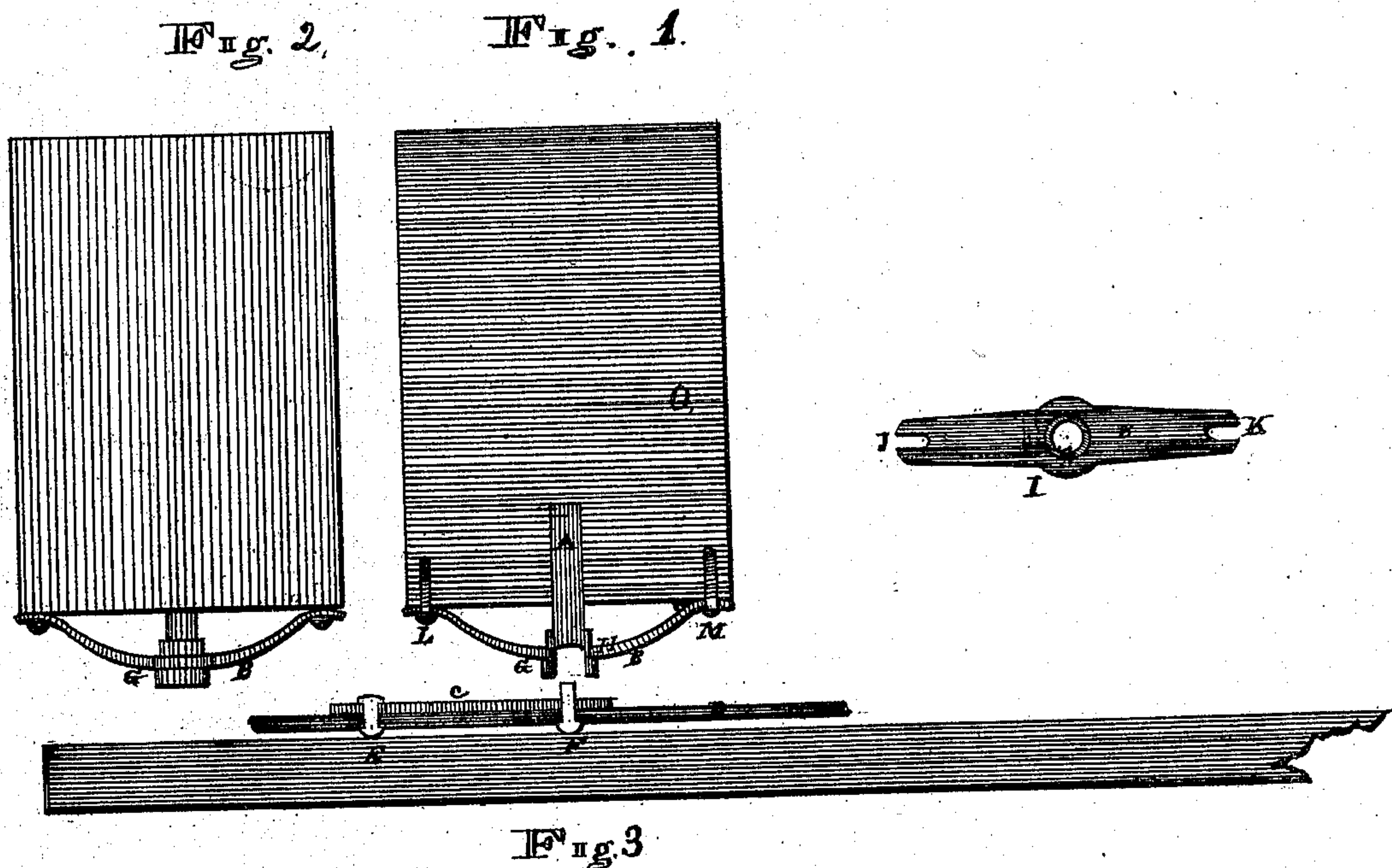


S. L. Bower,
Riveting Machine.

No. 105,897.

Patented Aug. 2, 1870.



Inventor

Samuel L. Bower

Witnesses.

A. P. Babbett
S. L. Smith

UNITED STATES PATENT OFFICE.

SAMUEL L. BOWER, OF AUBURN, NEW YORK.

IMPROVEMENT IN DEVICES FOR RIVETING.

Specification forming part of Letters Patent No. **105,897**, dated August 2, 1870.

To all whom it may concern:

Be it known that I, S. L. BOWER, of the city of Auburn, in Cayuga county, New York, have invented certain improvements in riveting knives onto the cutter-bars used in mowing and reaping machines, of which the following is a specification.

My invention relates to the manner of riveting on the knives onto cutter-bars by the use of a spring or its equivalent, preceding the riveting-tool, for the purpose of bringing the head of the rivet firmly against the side of the cutter-bar, and by the same operation pressing the knife onto the opposite side of said bar, whereby the joint between the cutter-bar and knife is closed up. Heretofore great difficulty has been experienced by the operator in rapidly closing up these parts while performing the work of riveting on the knives, and it is well known that any defect in so essential a part of a machine of this kind renders it almost worthless.

Figure 1 is a vertical cross-section of the slide used in machines for riveting, showing the heading-tool, spring, and socket through which the tool passes. Fig. 2 shows the slide with all the parts together when in operation. Fig. 3 is a table forming a part of the riveting-machine on which the work is placed when being performed.

In Fig. 1, C is the back edge of the knife, shown resting upon a portion of the cutter-

bar D, having two rivets passing through both the cutter-bar and the knife, one of which—the rivet E—is headed or finished. The rivet F is in the position to receive the blow of the riveting-tool A. The socket G is put through the spring B, and is prevented from sliding through the same by the shoulder H. A plan of the spring B is shown at I, having slots J and K in the ends, through which pass the bolts L and M, which secure the said spring to the slide O.

Now, when the slide O is moved downward it carries with it the spring B, and the socket G, inserted into said spring, comes in contact with the knife, pressing it down upon the cutter-bar D, and by the same pressure the cutter-bar is moved downward upon the rivet-head, whereby all the parts of the work are brought firmly together before the riveting-tool spreads the rivet over the knife, as shown at the rivet E, which shows the work in the completed form.

I claim as my invention—

In combination with the slide O and riveting-tool A, the spring B and socket G, arranged and operating substantially in the manner set forth.

SAMUEL L. BOWER.

Witnesses:

AVERY BABBETT,
H. M. BABBETT.