

I. H. COLLER.

Harvester.

No. 39,719.

Patented Sept. 1, 1863.

Fig. 1.

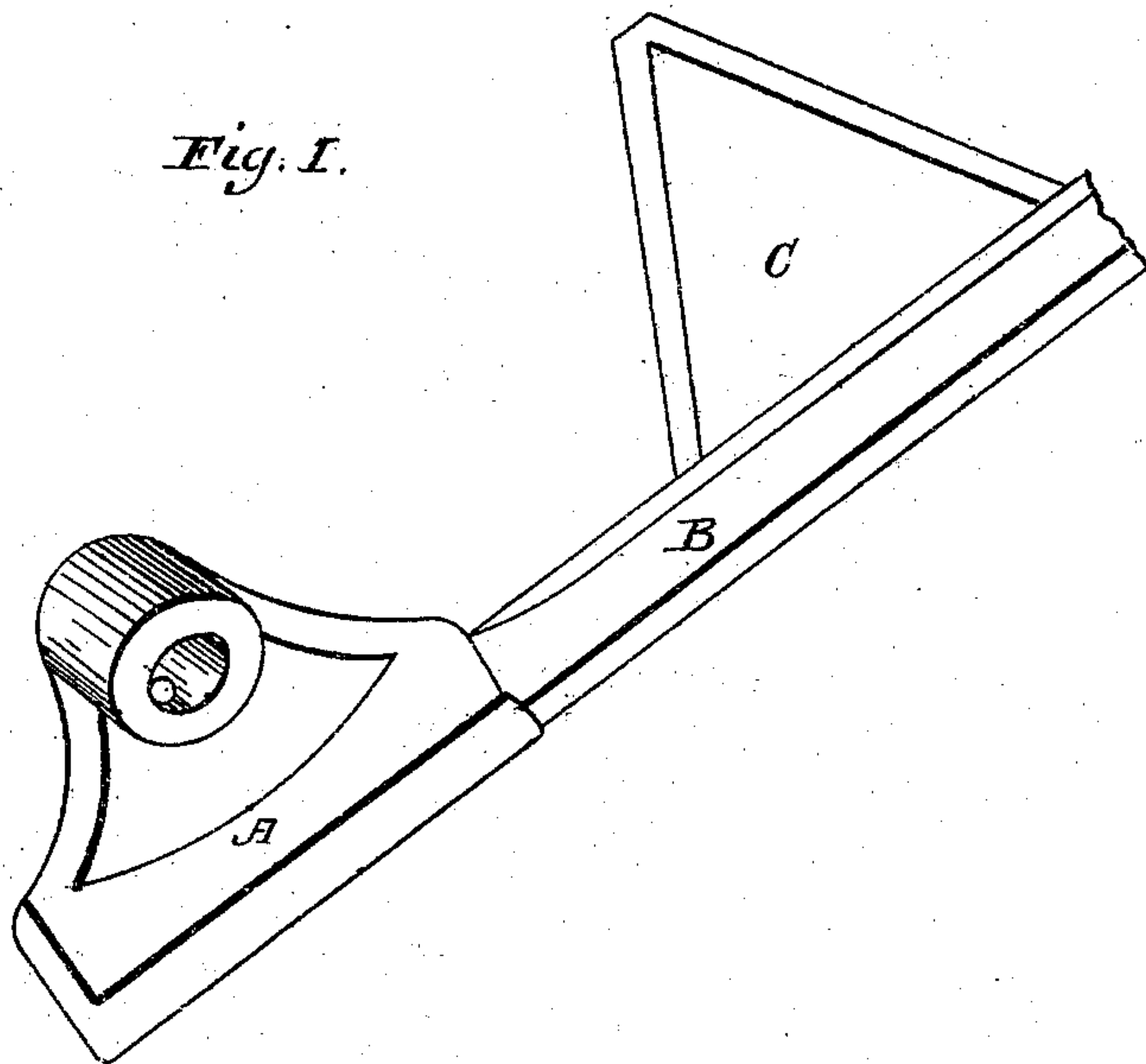
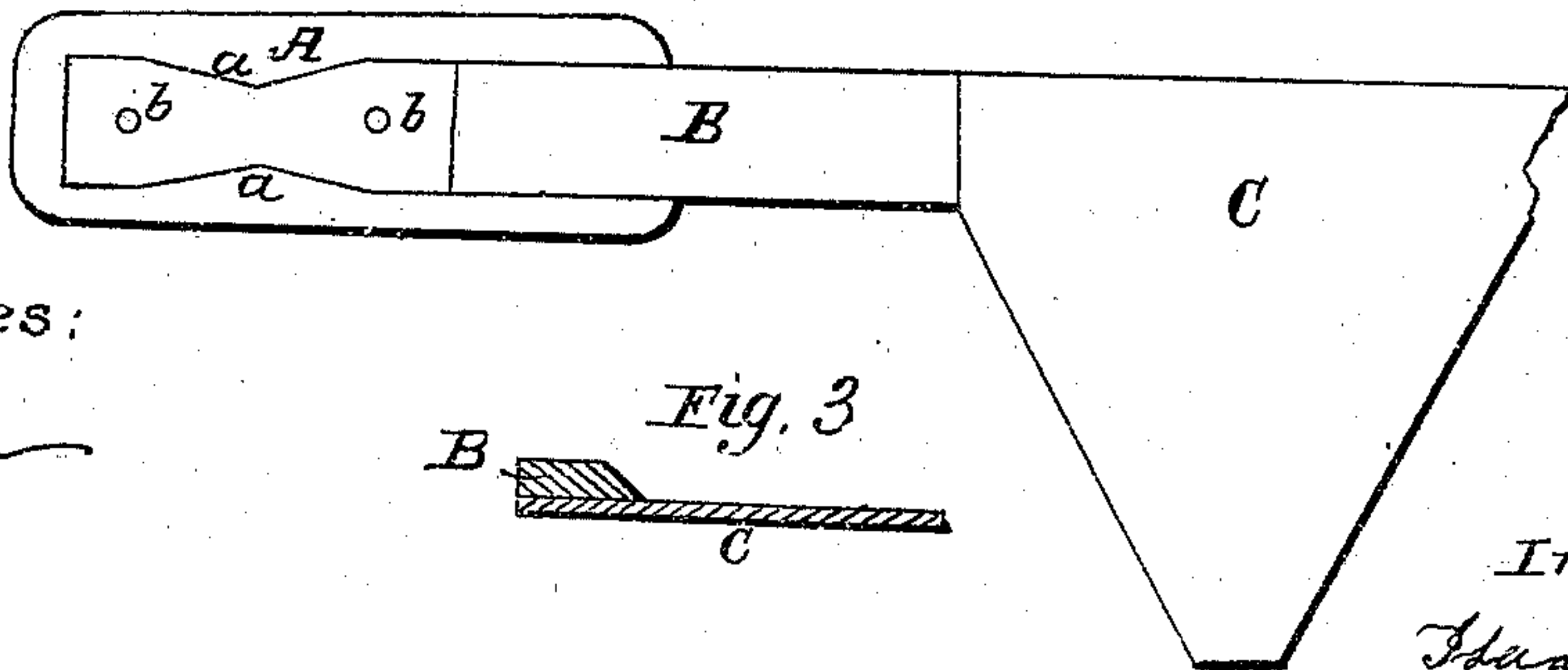


Fig. 2.



Witnesses:

John S. Collier
Geo. Hamak

Fig. 3

Inventor:

Idane H. Collier

UNITED STATES PATENT OFFICE.

ISAAC H. COLLER, OF POUGHKEEPSIE, NEW YORK.

IMPROVEMENT IN HARVESTERS.

Specification forming part of Letters Patent No. **39,719**, dated September 1, 1863.

To all whom it may concern:

Be it known that I, ISAAC H. COLLER, of Poughkeepsie, in the county of Dutchess and State of New York, have invented certain Improvements in Heads for Knife - Rods and Knife-Rods for Harvesters, the construction and operation of which I have described in the following specification and illustrated in its accompanying drawings with sufficient clearness to enable competent and skillful workmen in the arts to which it pertains or is most nearly allied to make and use my invention.

The nature of my invention consist in forming the head of a separate piece and attaching it to the knife-rod by means of double dovetails and rivets, or their equivalents.

In the accompanying drawings, Figure 1 is a perspective view, showing the head and a part of a cutter-bar and one knife.

Fig. 2 is a plan view of the under side of head and part of cutter-bar. A is the head; B, the knife-rod; C, the knife. The head A is cast with a recess on the under side, Fig. 2, the depth and width of the knife-rod B, with two projecting dovetails, *a a*, on each side.

The end of the knife-rod is fitted tight in this recess and fastened by means of the rivets *b b* securely to the head. By this arrangement it will be seen that the dovetails *a a* take all the strain of the rivets *b b* and enable the maker to preserve the full strength of the knife-rod.

Fig. 3 is a section of the knife-rod, showing formation, and which approaches more nearly that of a trapezoid with the acute angle in front and in contact with the knife, in order to present less obstruction to the cut grass or grain passing over it.

I do not claim broadly the use of a knife-head made separate from the knife-rod; but

What I claim, and desire to be secured to me by Letters Patent, is—

The manner of attaching the head A to the knife-rod B by means of the double dovetails *a a* and rivets *b b*, or their equivalents, substantially as described.

ISAAC H. COLLER.

Witnesses:

JOHN D. B. COLLER,
GEO. HANNAH.