

A. S. BUNKER.
 Improvement in Metal-Cutting Machines.
 No. 126,179. Patented April 30, 1872.

Fig. 1.

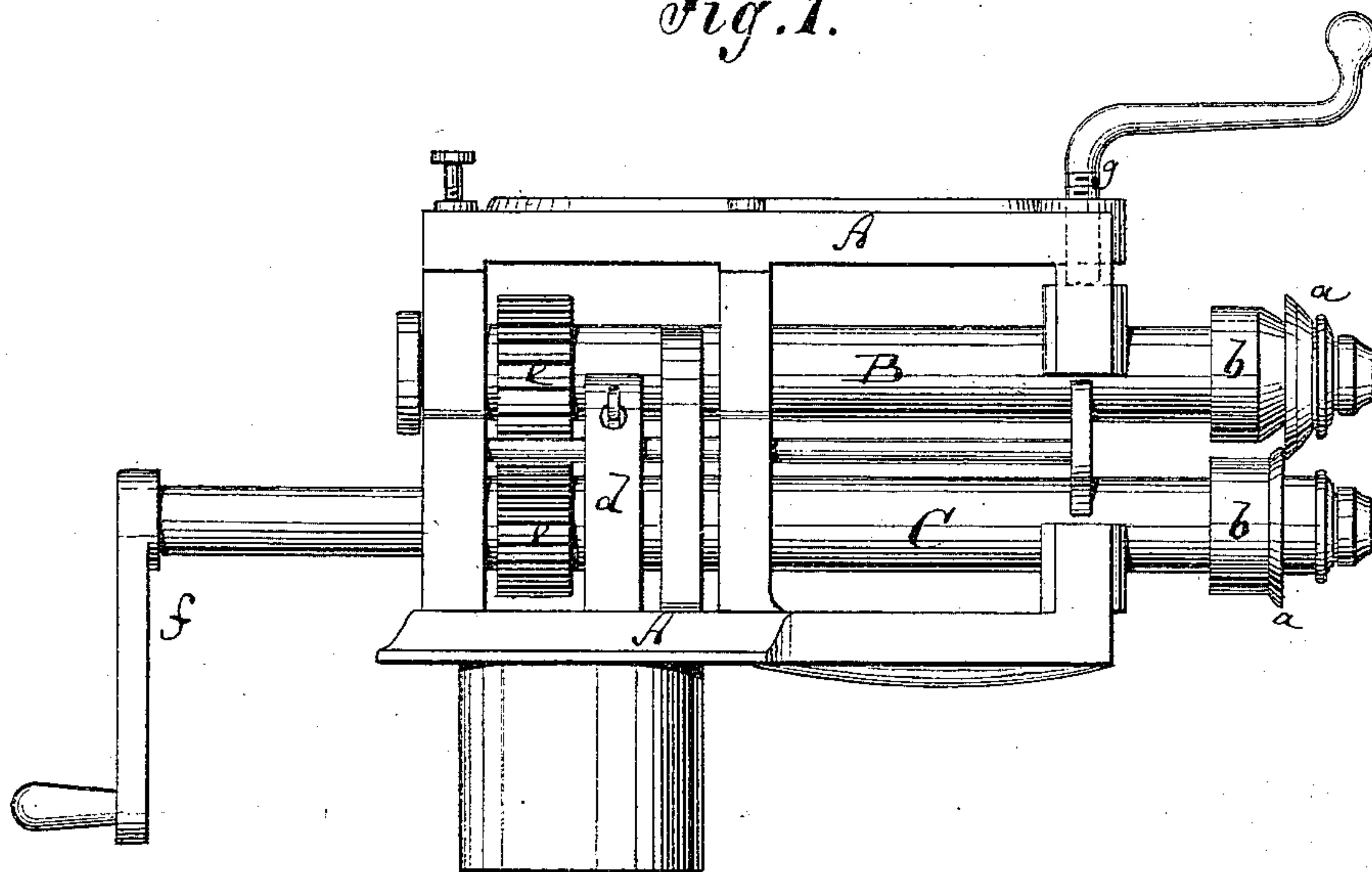
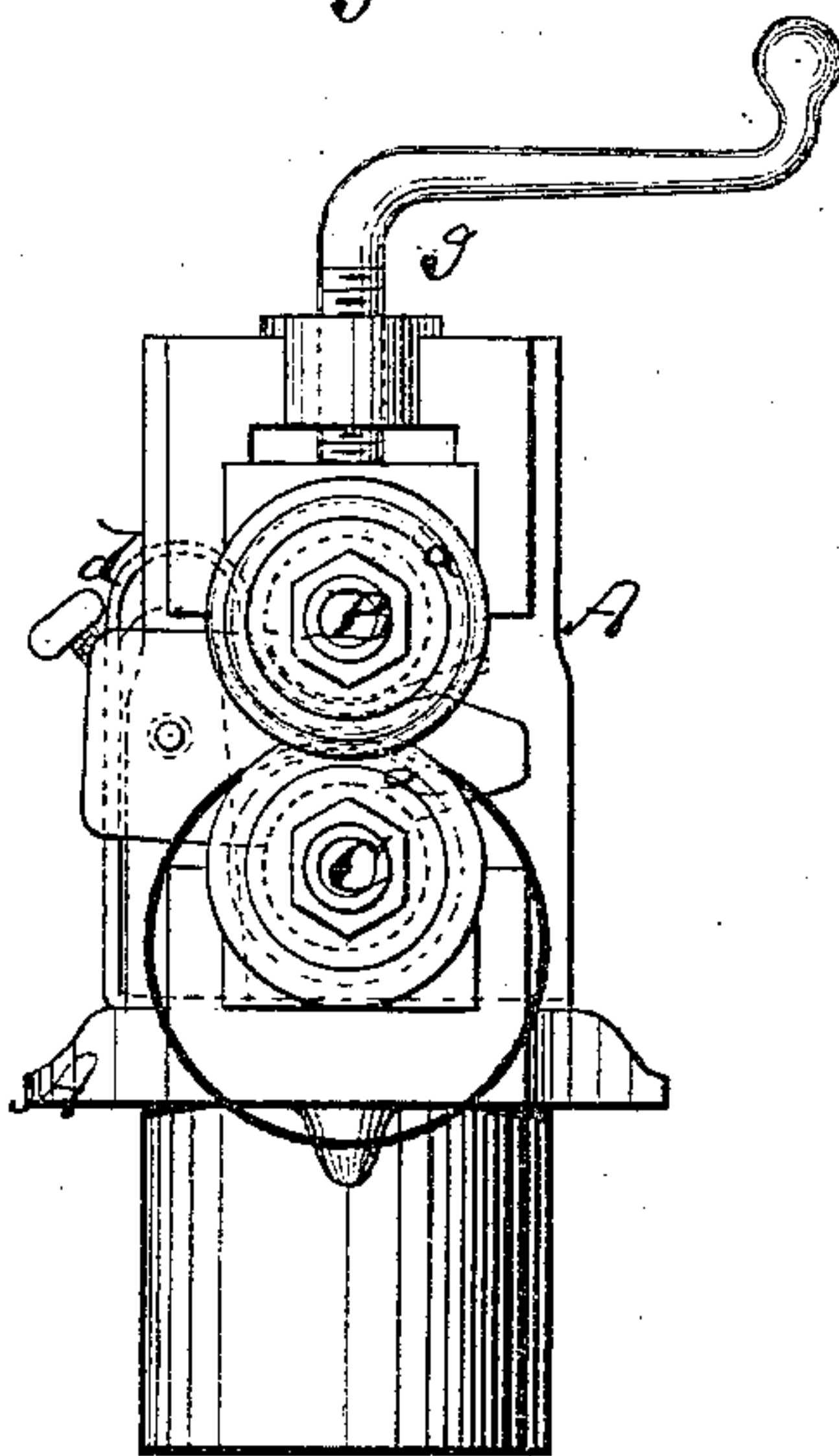


Fig. 2.



Witnesses:
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UNITED STATES PATENT OFFICE.

AUGUSTUS S. BUNKER, OF LAWRENCE, MASSACHUSETTS.

IMPROVEMENT IN METAL-CUTTING MACHINES.

Specification forming part of Letters Patent No. 126,179, dated April 30, 1872.

Specification describing a new and Improved Metal-Cutting Machine, invented by AUGUSTUS S. BUNKER, of Lawrence, in the county of Essex and State of Massachusetts.

Figure 1 represents a side elevation of my improved metal-cutting machine. Fig. 2 is an end view of the same.

Similar letters of reference indicate corresponding parts.

The invention relates to machinery for cutting metal with rotary knives; and consists in the improvement hereinafter fully described and pointed out in the claim.

A in the drawing represents the frame of the machine. B and C are two horizontal shafts hung in the frame, and carrying at their front ends circular cutters *a a*, which overlap each other to cut shear fashion. Behind each cutter is mounted upon or formed on each shaft a ring, *b*, the two rings serving to feed the ma-

terial that is being cut. The shaft B can be adjusted up or down by means of a screw, *g*, to adapt the machine to material of greater or less thickness. *d* is a friction-spring bearing against the upper shaft B. *e e* are the pinions mounted upon the shafts B C to transmit the motion, which is imparted to one by means of a crank-handle, *f*.

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

In metal-cutting machinery, the combination of lapping circular knives *a a* and feed-rolls *b b*, arranged on the same pair of shafts, as and for the purpose described.

AUGUSTUS S. BUNKER.

Witnesses:

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