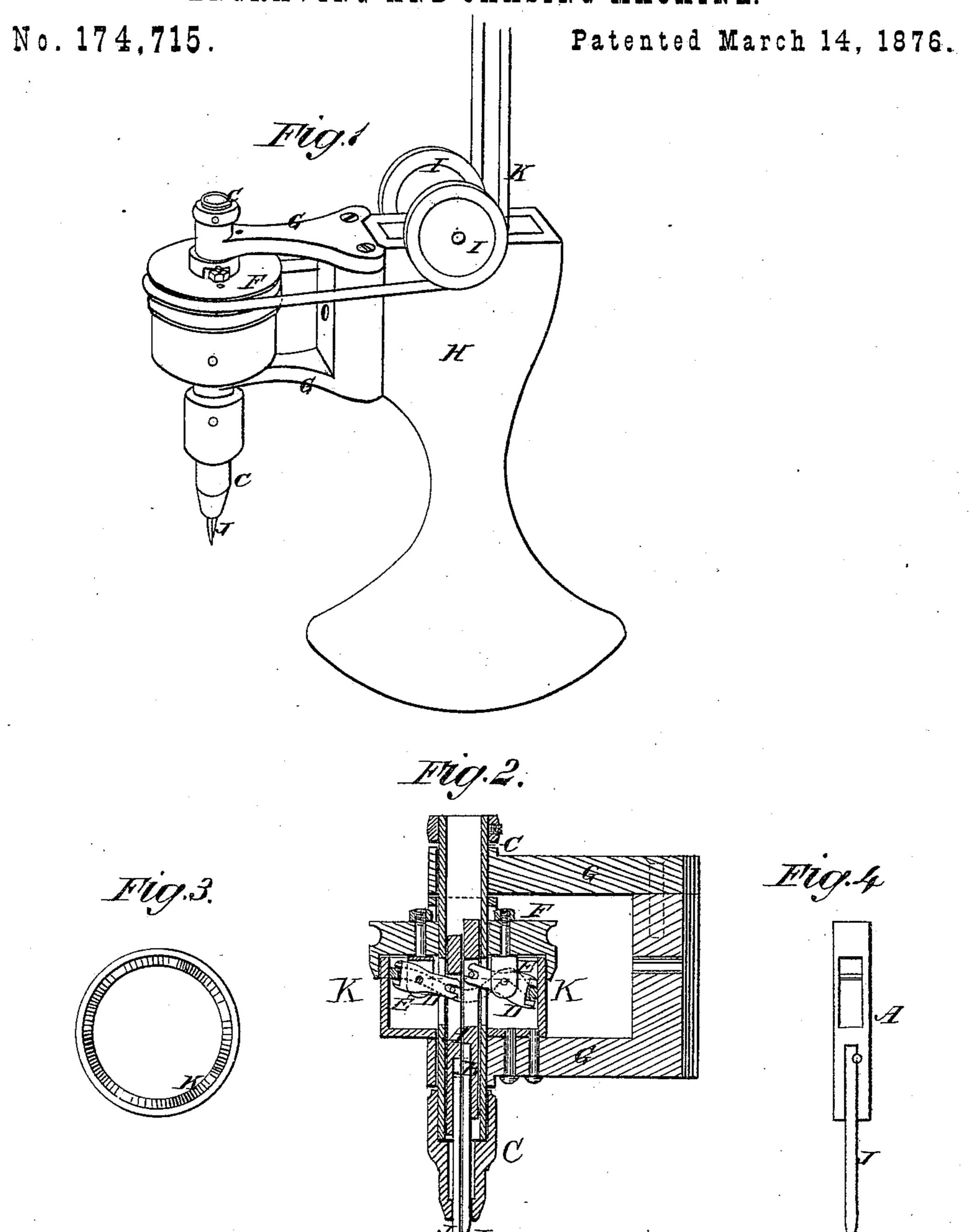
R. R. ATCHISON.

ENGRAVING AND CHASING MACHINE.



WITNESSES:

Thurs Matte, John Goethals R. R. Cetchison By minus

ATTORNEYS.

UNITED STATES PATENT OFFICE.

ROBERT R. ATCHISON, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN ENGRAVING AND CHASING MACHINES.

Specification forming part of Letters Patent No. 174,715, dated March 14, 1876; application filed February 21, 1876.

To all whom it may concern:

Beit known that I, ROBERT RALSTON ATCHISON, of the city of Boston, in the county of
Suffolk and State of Massachusetts, have invented a new and Improved Engraving and
Chasing Machine, of which the following is a
specification.

My invention consists of a couple of toolstocks, each carrying an engraving, chasing, or other tool in a hollow revolving mandrel, and made to reciprocate, at the same time alternately with each other, three or four times with each revolution for making engraved or chased ground-work on gold or plated jewelry, silver, silver-plated, or washed ware.

Figure 1 is a perspective view of my improved machine. Fig. 2 is a sectional elevation. Fig. 3 is a plan view of the cam-ring for making the reciprocating movements of the tool-stocks, and Fig. 4 is a side elevation of one of the tool-stocks with a tool in it.

A and B represent a couple of tool-stocks, arranged side by side in the hollow revolvingmandrel C, so as to slide up and down freely at the same time that they are turned around by the mandrel; D, levers suspended in

hangers E from the pulley F, which turns the mandrel, said levers being connected at one end with one of the tool-stocks and at the other with the stationary cam-ring K, so that they cause the tool-stocks to slide up and down while being revolved by the mandrel C.

The mandrel is mounted in the bearing G, which is attached to a stand, H, and has pulleys I, for receiving the belt K from above and guiding it around the horizontal pulley F.

J represents the engraving-tools, which are fitted in the stocks so as to be taken out readily for changing to use tools with different-shaped points for different work.

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

The combination of stationary cam-ring K, levers D, pulley F, hollow mandrel C, and the tool-stocks A B, substantially in the manner and for the purpose described.

ROBERT R. ATCHISON.

Witnesses:

AUGUSTUS DOYLE, WILLIAM B. WALKER.