

UNITED STATES PATENT OFFICE.

ADDISON B. CLEMENCE, OF WORCESTER, MASSACHUSETTS.

WIRE-COATING FOR DRAWING.

SPECIFICATION forming part of Letters Patent No. 282,055, dated July 31, 1883.

Application filed April 12, 1883. (No specimens.)

To all whom it may concern:

Be it known that I, ADDISON B. CLEMENCE, of the city and county of Worcester, in the State of Massachusetts, have invented certain
5 new and useful Improvements in the Art or Process of Wire-Drawing; and I do hereby declare that the following is a full, clear, and exact description of my said invention.

To enable those skilled in the art to which
10 my invention appertains to practice my said improved process, I will proceed to describe it more in detail.

The wire, preparatory for my coating, should be cleaned in a mixture of oil of vitriol
15 and water, and then rinsed or washed in hot water. It is then in condition to be treated with my coating for drawing, which consists of a solution of acetate of soda in water, and after said coating has been properly dried the
20 wire is ready to be drawn through the drawing-dies in the usual manner.

It is better to prepare the bath for coating of sufficient size to contain a considerable quantity, and then immerse the coils of wire in the
25 bath, which can be done with the machinery and appliances now in common use for coating wire.

The mode of preparing the solution for my coating is to heat a suitable amount of water in the bath, and then add and dissolve the acetate of soda until a solution of proper strength
30 is obtained, then immerse the wire, as before explained, and after the coating becomes hardened the wire is then ready to be drawn.

The coating to the wire obtained in the manner above described is adhesive, hard, smooth,
35 and very uniform on the surface, and in a large measure preserves the wire from rust after it is drawn, leaving it a bright finish.

Having thus described my improved process
40 in the art of coating wire preparatory for drawing, what I claim therein as new and of my invention, and desire to secure by Letters Patent, is—

For wire-drawing, a coating of acetate of
45 soda, substantially as and for the purpose set forth.

ADDISON B. CLEMENCE.

Witnesses:

MIRICK H. COWDEN,
JONA. LUTHER.