

A. VAN WINKLE.
Frame for Anodes.

No. 226,576.

Patented April 13, 1880.

Fig: 1.

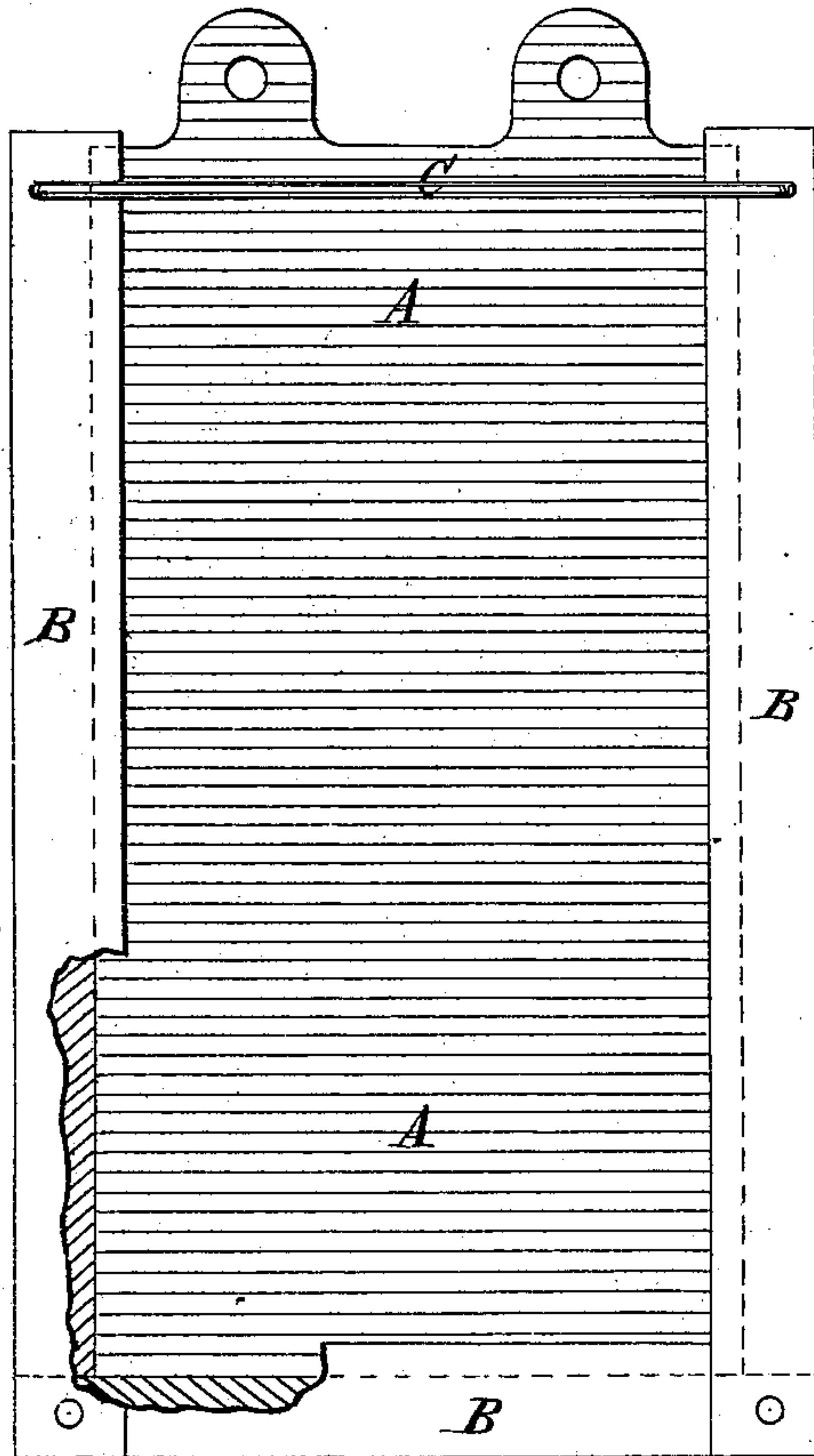


Fig: 2.



WITNESSES:

Achilles Schell.
C. Sedgwick

INVENTOR:

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BY

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UNITED STATES PATENT OFFICE.

ABRAHAM VAN WINKLE, OF NEWARK, NEW JERSEY.

FRAME FOR ANODES.

SPECIFICATION forming part of Letters Patent No. 226,576, dated April 13, 1880.

Application filed September 9, 1879.

To all whom it may concern:

Be it known that I, ABRAHAM VAN WINKLE, of Newark, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Frames for Anodes, of which the following is a specification.

Figure 1 represents a side elevation of my improvement. Fig. 2 is a plan or end view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to prevent the falling apart of the particles or pieces of the anode after it has become disintegrated by the action of the electric current while hanging in the solution without substantially interfering with the exposure of the surfaces of the anode to the solution.

The invention consists in combining a frame, of wood or other suitable material, with the edges of an anode of cast or rolled metal, as hereinafter fully described.

A represents a cast or rolled anode, made of nickel, cobalt, copper, or other metal, in the usual way. B represents a frame, made of wood or other suitable material that the solution will not act upon, which frame may be a conducting or a non-conducting substance, as desired.

In the drawings, the frame B is represented

as surrounding three edges of the anode, said frame being connected at the top along the upper edge of the anode by a rod or bar, C, which may be coated with some substance that the solution will not act upon.

The inner edges of the parts of the frame B may be grooved to receive the edges of the anode A, as shown in the drawings.

With this construction the anode can be conveniently slipped into or removed from the frame B as required, and when the anode is suspended in the solution the frame will serve to hold the anode so that its particles and pieces cannot drop away when it becomes disintegrated by the action of the electric current. At the same time the surfaces of the anode will be exposed to the solution in which it is suspended.

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

The combination, with the anode A, of the open frame B, provided with grooves, and the bar C, substantially as herein shown and described.

ABRAHAM VAN WINKLE.

Witnesses:

JAMES T. GRAHAM,
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