

No. 616,755.

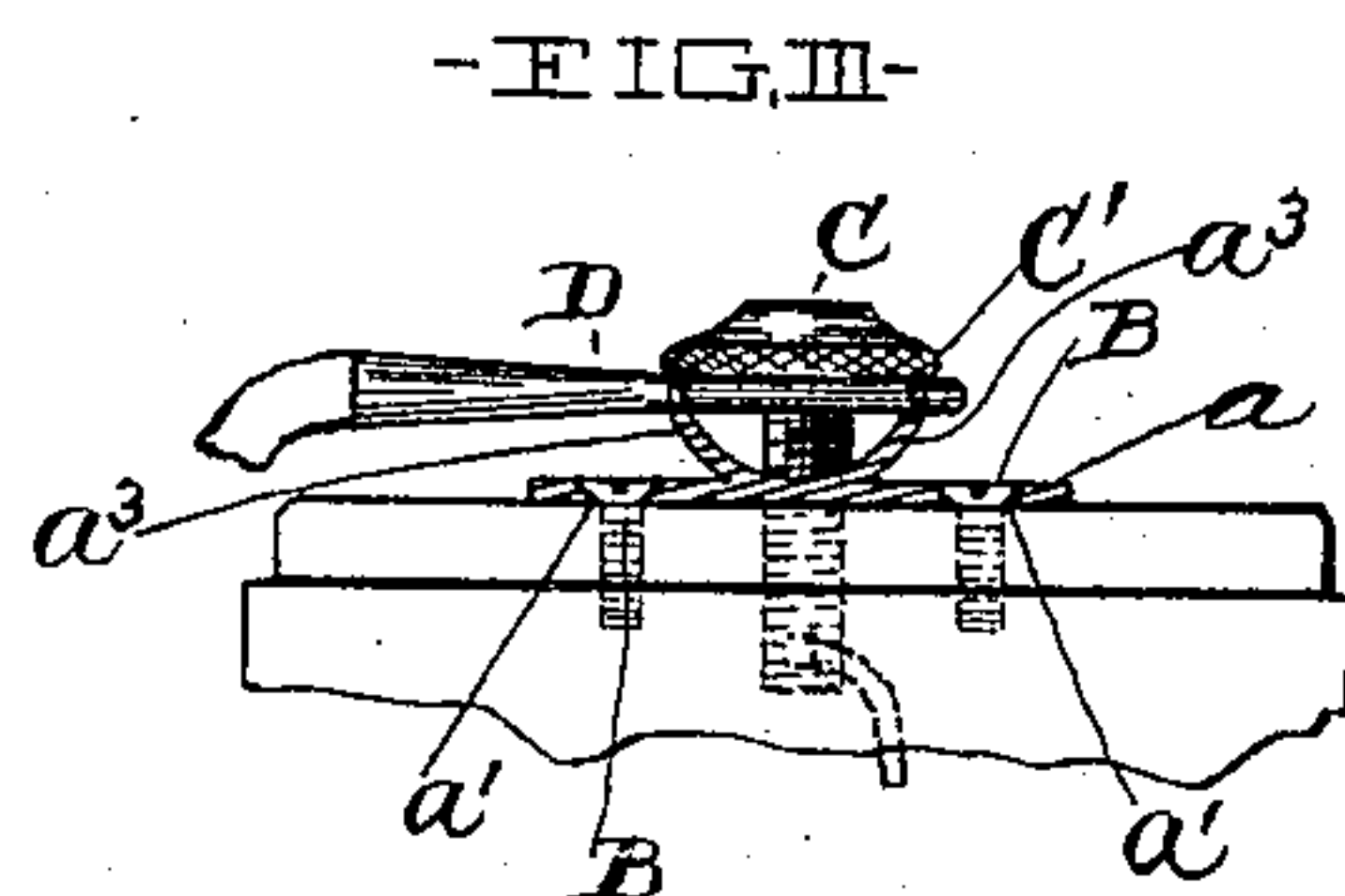
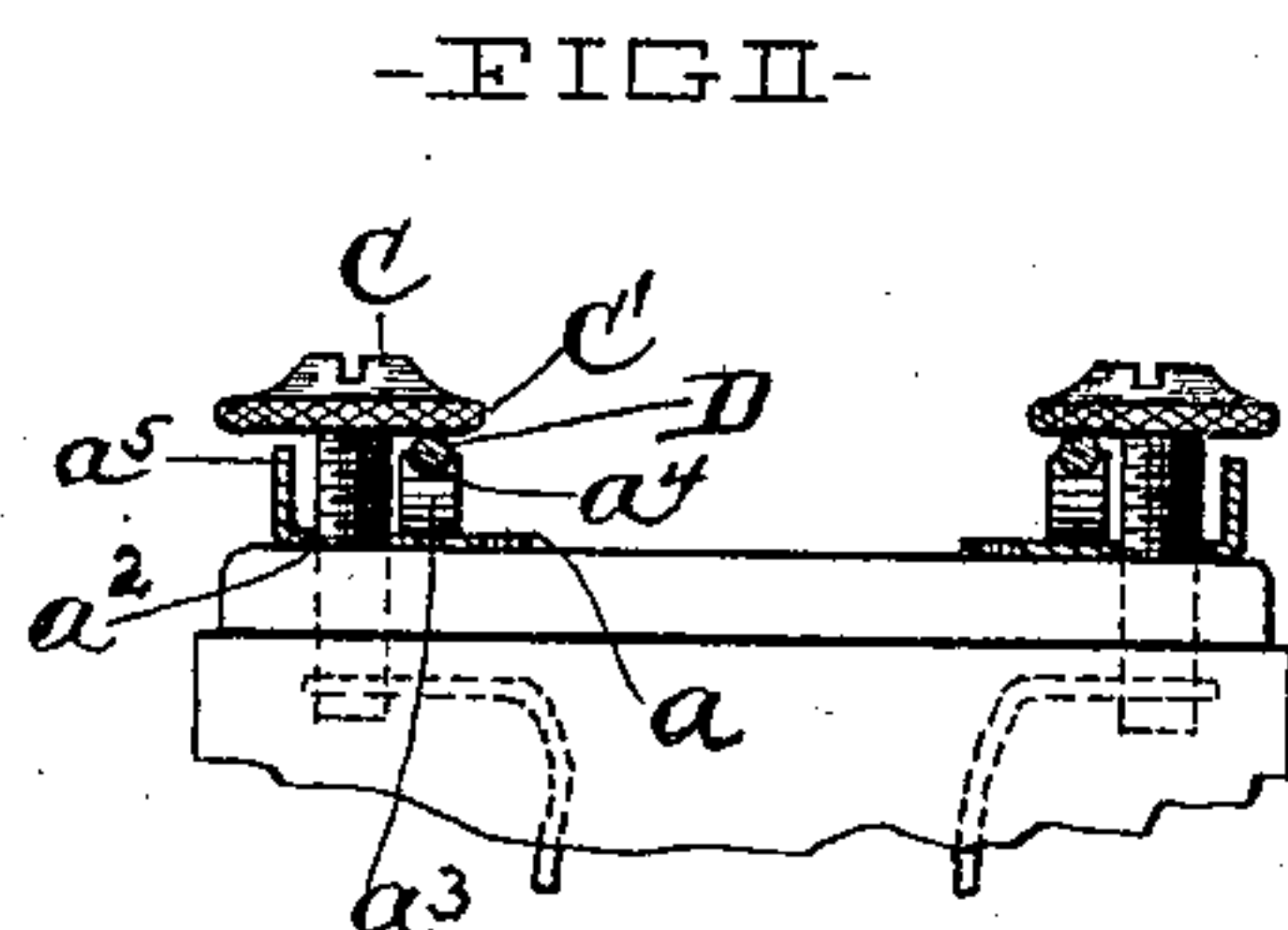
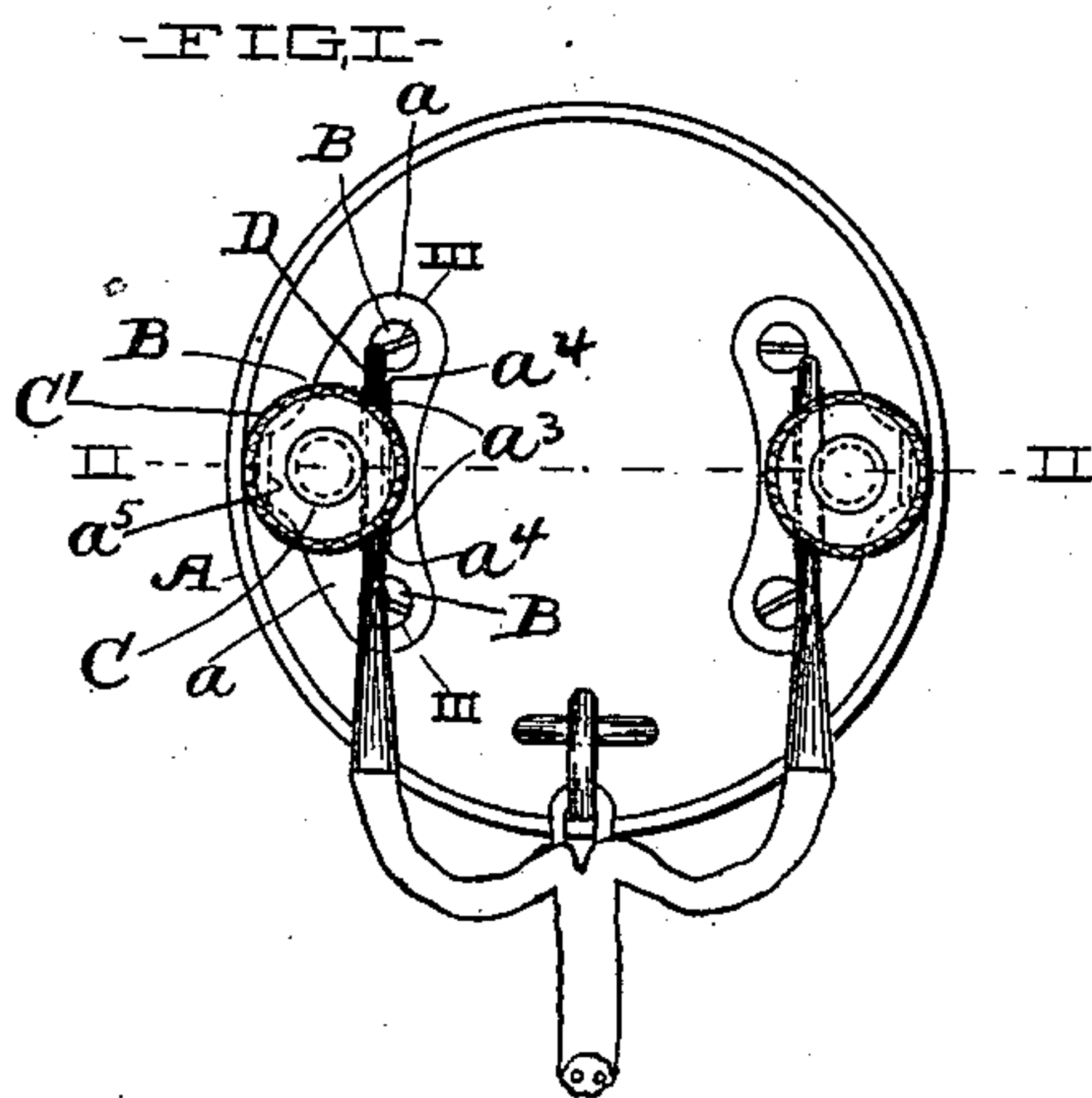
Patented Dec. 27, 1898.

J. A. WILLIAMS.

BINDING POST FOR ELECTRICAL, TELEPHONIC, OR TELEGRAPHIC INSTRUMENTS.

(Application filed May 25, 1898.)

(No Model.)



WITNESSES:
Daniel E. Daly.
A. H. Parrott.

INVENTOR,
Joseph A. Williams
BY
Lynch, Dorer & Donnelly
his ATTORNEYS

UNITED STATES PATENT OFFICE.

JOSEPH A. WILLIAMS, OF CLEVELAND, OHIO, ASSIGNOR TO THE WILLIAMS
ELECTRIC COMPANY, OF SAME PLACE.

BINDING-POST FOR ELECTRICAL, TELEPHONIC, OR TELEGRAPHIC INSTRUMENTS.

SPECIFICATION forming part of Letters Patent No. 616,755, dated December 27, 1898.

Application filed May 25, 1898. Serial No. 681,728. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH A. WILLIAMS, of Cleveland, county of Cuyahoga, and State of Ohio, have invented certain new and useful Improvements in Binding-Posts for Electrical, Telephonic, or Telegraphic Instruments; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

My invention relates to improvements in binding-posts for electrical, telephonic, and telegraphic instruments, and more especially to a binding-post designed for the wires that lead to and from a telephone-receiver or other instrument that is exposed to careless handling or rough usage.

The object of the invention is to provide a post to which the connecting-wire is so held as to maintain adequate contact between the wire and the post and that is durable and exceedingly simple in construction.

With this object in view the invention consists in certain features of construction and combinations of parts hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure I is a view of the rear end of a telephone-receiver provided with my improved binding-post. Fig. II is a vertical section on line II II, Fig. I. Fig. III is a vertical section on line III III, Fig. I.

Referring to the drawings, A designates the case of a telephone-receiver, and B one of the binding-posts attached to the rear end of the receiver.

My improved binding-post comprises a plate *a*. This plate is preferably oblong and is provided with two holes *a'* *a'*, formed in opposite ends, respectively, of the plate for the purpose of accommodating the reception of screws B, that are employed in securing the plate to the receiver or instrument. Plate *a* at or near its central portion is provided with a hole *a*² for accommodating the location and operation of a screw C, that forms a part of the binding-post. The said screw extends through a correspondingly-threaded hole formed in the case of the receiver or instrument and at its outer end is provided with a

head, collar, or laterally-projecting member C', that overlaps and engages the tip of the wire D, connecting with the said post. The said head bears upon the wire and holds the latter to its seat, that is formed upon a saddle with which plate *a* is provided. Plate *a* is preferably a sheet-metal piece, and the wire-engaging saddle consists, preferably, of two members *a*³ *a*³, projecting or bent outwardly from and integral with the said plate, and the said two outwardly-bent saddle-forming members of the plate are provided with depressions or recesses *a*⁴ for receiving the wire and form outwardly-diverging springs that act in the direction to press the wire against the screw's head when the screw has been screwed inwardly far enough to exert a pressure upon the said springs. It will be observed that the said springs are formed between the plate and the screw's head at one side of the screw's shank, and the plate at the opposite side of the shank and between the screw's head and the plate has an outwardly-projecting stop-forming flange *a*⁵, that limits the inward movement of the screw and projects outwardly far enough to arrest the inward movement of the screw before the latter has exerted an undue pressure upon the springs.

I would have it understood that my invention is not limited to the exact details of the preferred construction illustrated, but embraces, broadly, such a relative arrangement of a spring and a laterally-projecting member upon the wire-connecting screw of a binding-post as will cause the wire to be clamped between the spring and the said member of the screw and maintain by means of the said spring an adequate contact between the screw and the wire.

What I claim is—

1. A binding-post of the character indicated, comprising a plate, a saddle or bearing for the wire, a screw having a head or member overlapping the saddle, and a stop arranged to limit the inward movement of the screw, substantially as set forth.

2. A binding-post of the character indicated, comprising a screw having a head, collar or laterally-projecting member, and a spring at one side of the screw's shank, and the relative arrangement of the said spring

and the said member of the screw being such that they are capable of clamping a wire introduced between them.

3. A binding-post of the character indicated, comprising a plate, a screw provided with a bent collar or laterally-projecting member, and a spring at one side of the screw's shank and between the plate and the said member of the screw and formed by an outwardly-projecting member of the plate, substantially as and for the purpose set forth.

4. A binding-post of the character indicated, comprising a plate, a screw having a head, collar or laterally-projecting member, and a spring at one side of the screw's shank and between the plate and the said member of the screw and formed by two outwardly-projecting members of the plate arranged a suitable distance apart and in position to form two bearings for the wire, substantially as and for the purpose set forth.

5. A binding-post of the character indicated, comprising a screw having a head, collar or laterally-projecting member, and a spring at one side of the screw's shank and having a wire-receiving depression or recess opposite the inwardly-facing surface of the said member of the screw, substantially as and for the purpose set forth.

6. A binding-post of the character indicated, comprising a plate, a screw having a head, collar or laterally-projecting member, and springs arranged between the plate and the said member of the screw and formed by

two members projecting and diverging outwardly from and integral with the plate and provided with depressions or recesses in their outer ends, substantially as and for the purpose set forth.

7. A binding-post of the character indicated, comprising a plate, a screw having a head, collar or laterally-projecting member, a spring between the plate and the said member of the screw, and a flange formed upon the plate in position to be engaged by the said member of the screw when the latter has been actuated inwardly far enough to cause a wire interposed between it and the spring to place the spring under tension, substantially as set forth.

8. The combination with the instrument; of the binding-post comprising the following: a plate secured to the instrument; a screw extending through the said plate and engaging a correspondingly-threaded hole in the instrument and having a head, collar or laterally-projecting member; a spring formed upon the plate between the plate's body portion and the said member of the screw, and a stop for limiting the inward moving of the screw upon screwing the latter inwardly, substantially as and for the purpose set forth.

Signed by me, at Cleveland, Ohio, this 24th day of May, 1898.

JOSEPH A. WILLIAMS.

Witnesses:

C. H. DORER,

A. H. PANETT.