

No. 751,419.

PATENTED FEB. 2, 1904.

J. SALOMON.
WIRE FURNITURE.

APPLICATION FILED SEPT. 11, 1902.

NO MODEL.

2 SHEETS—SHEET 1.

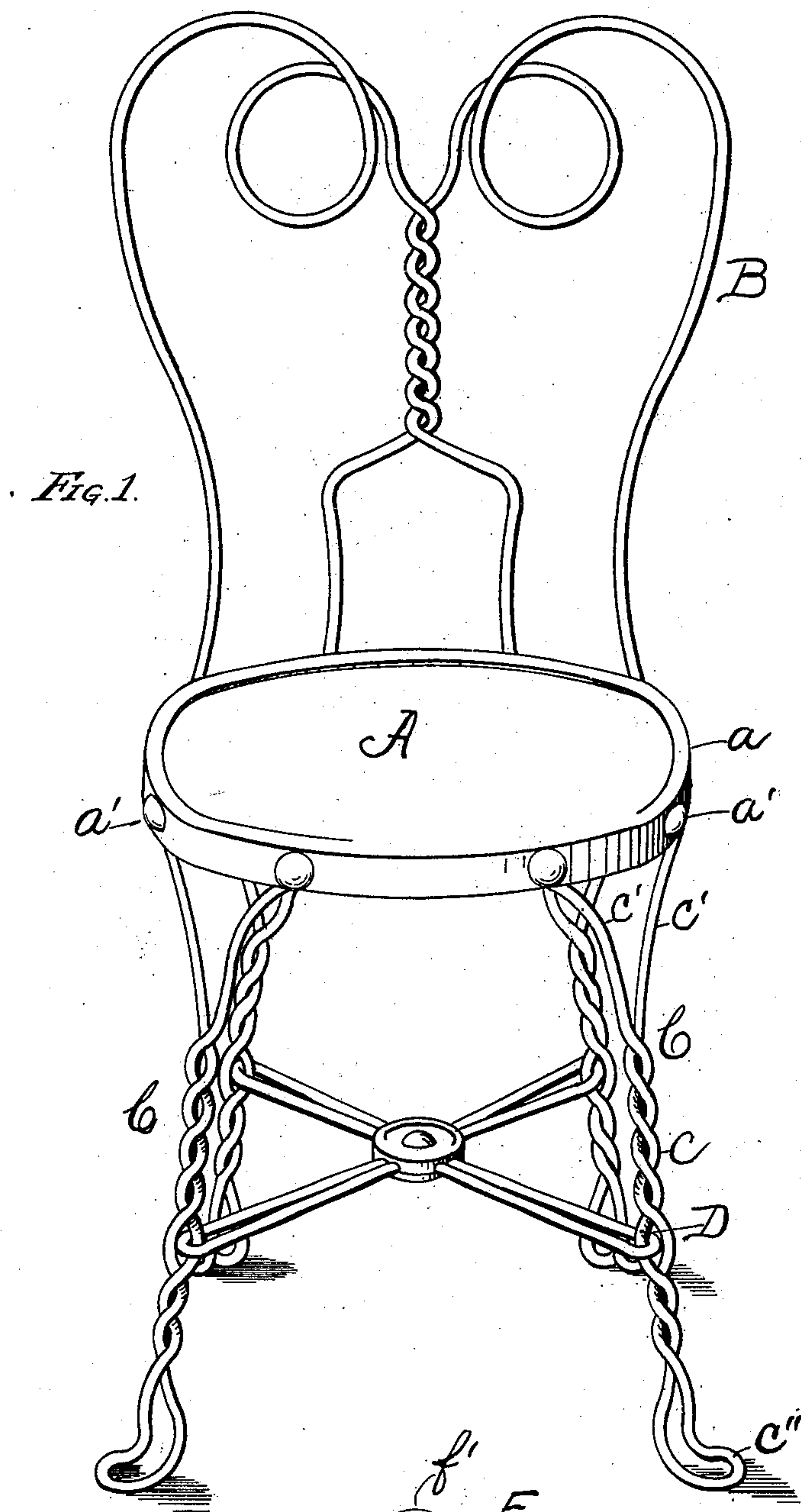


Fig. 1.

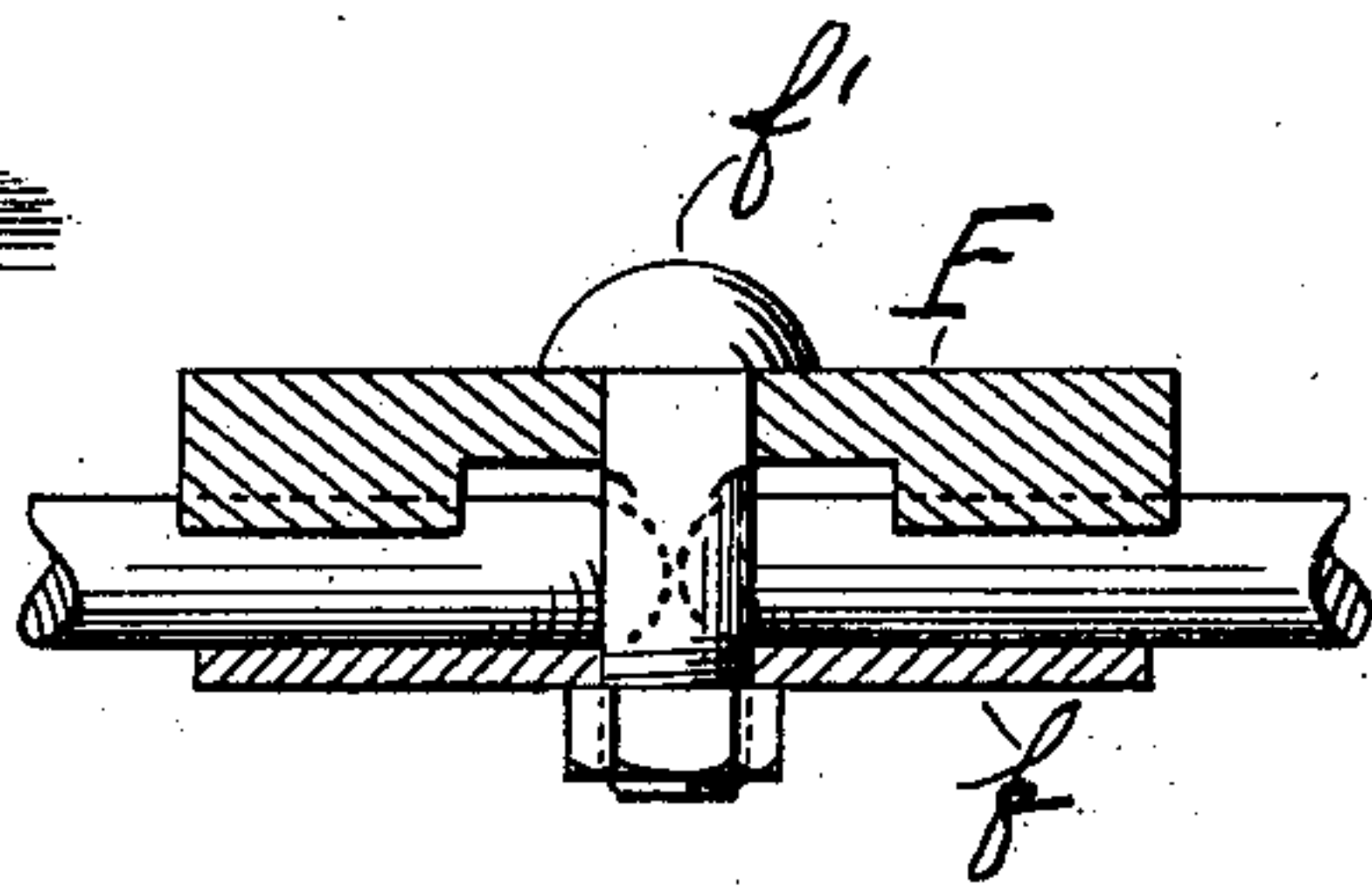


Fig. 2.

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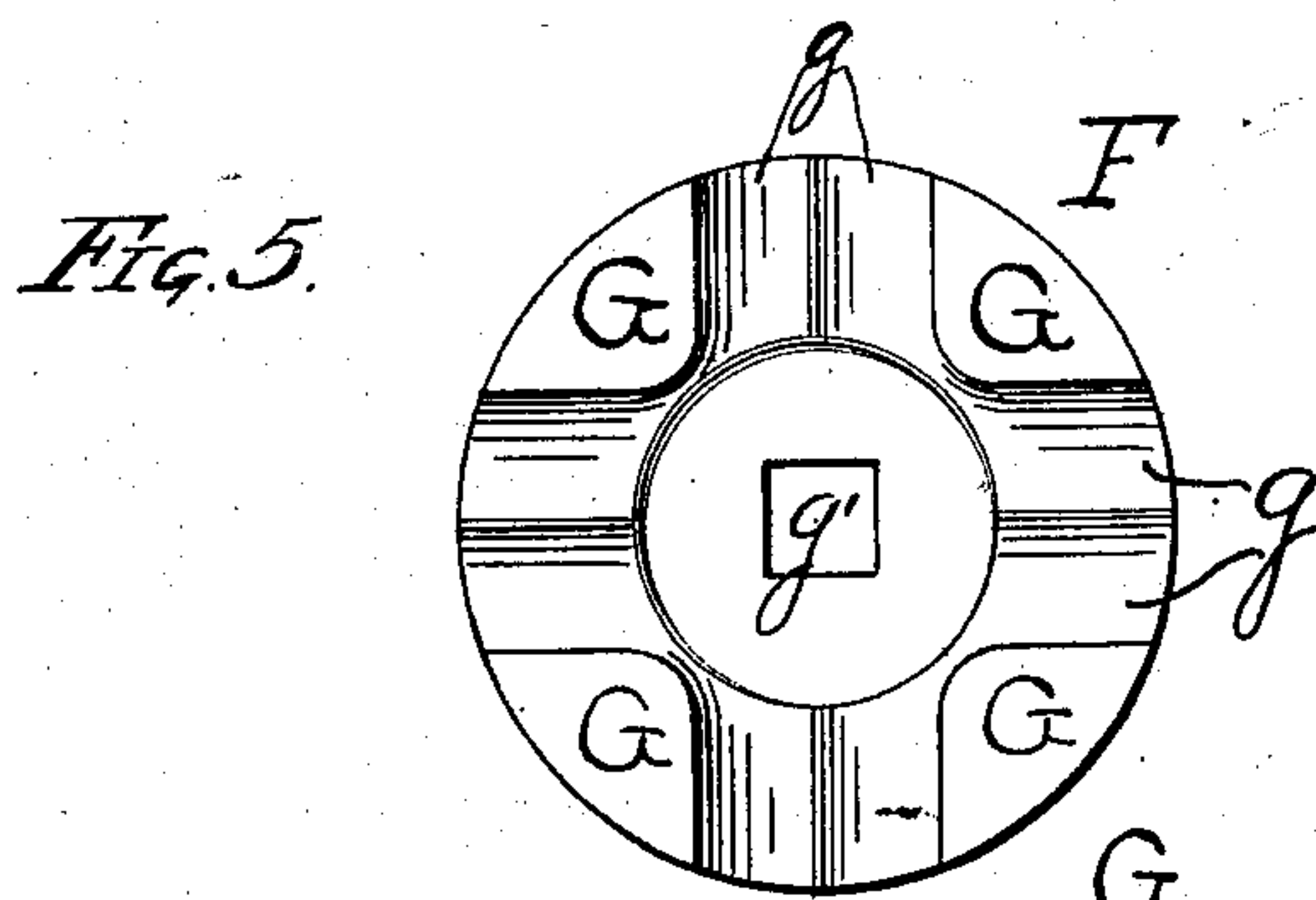
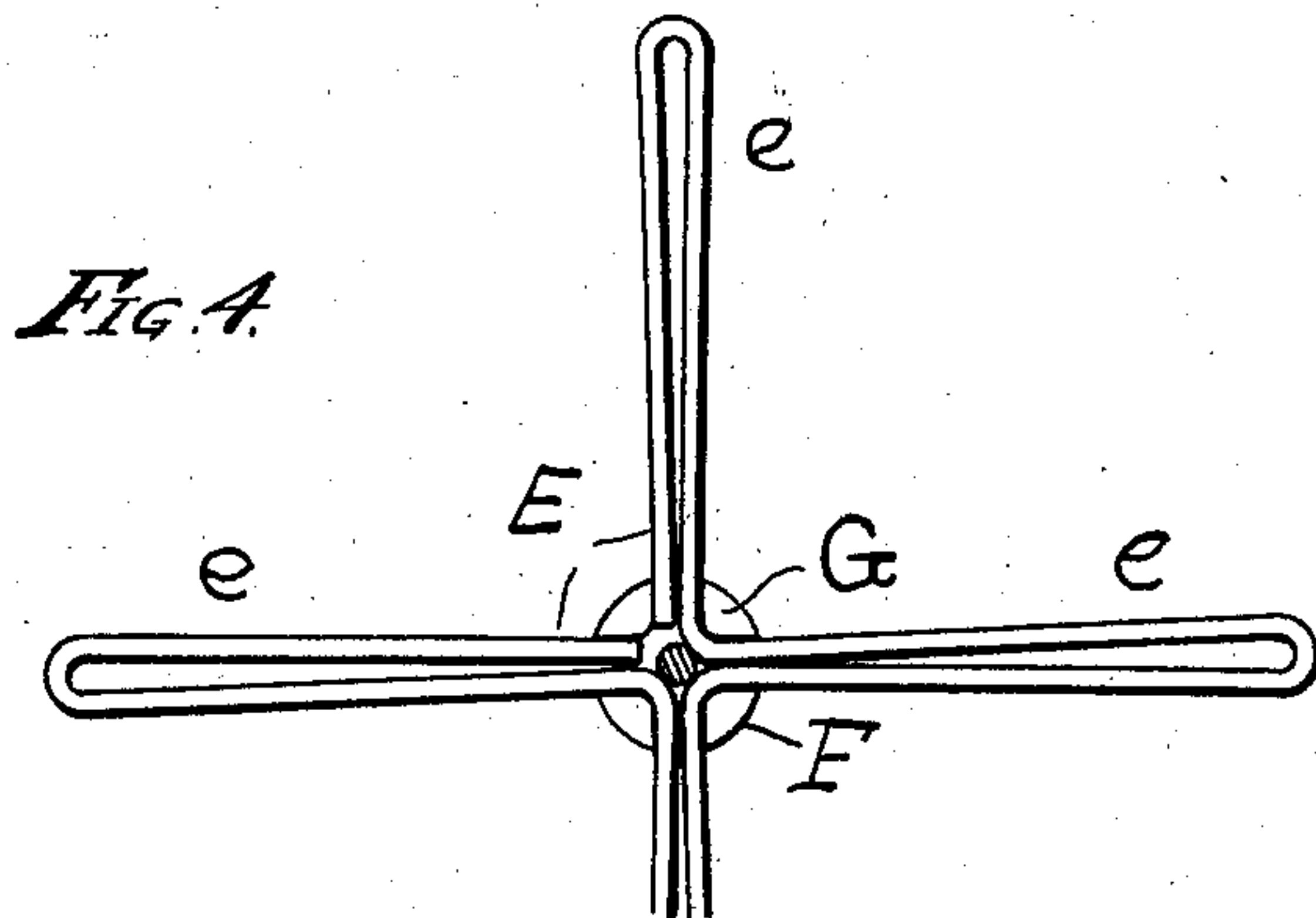
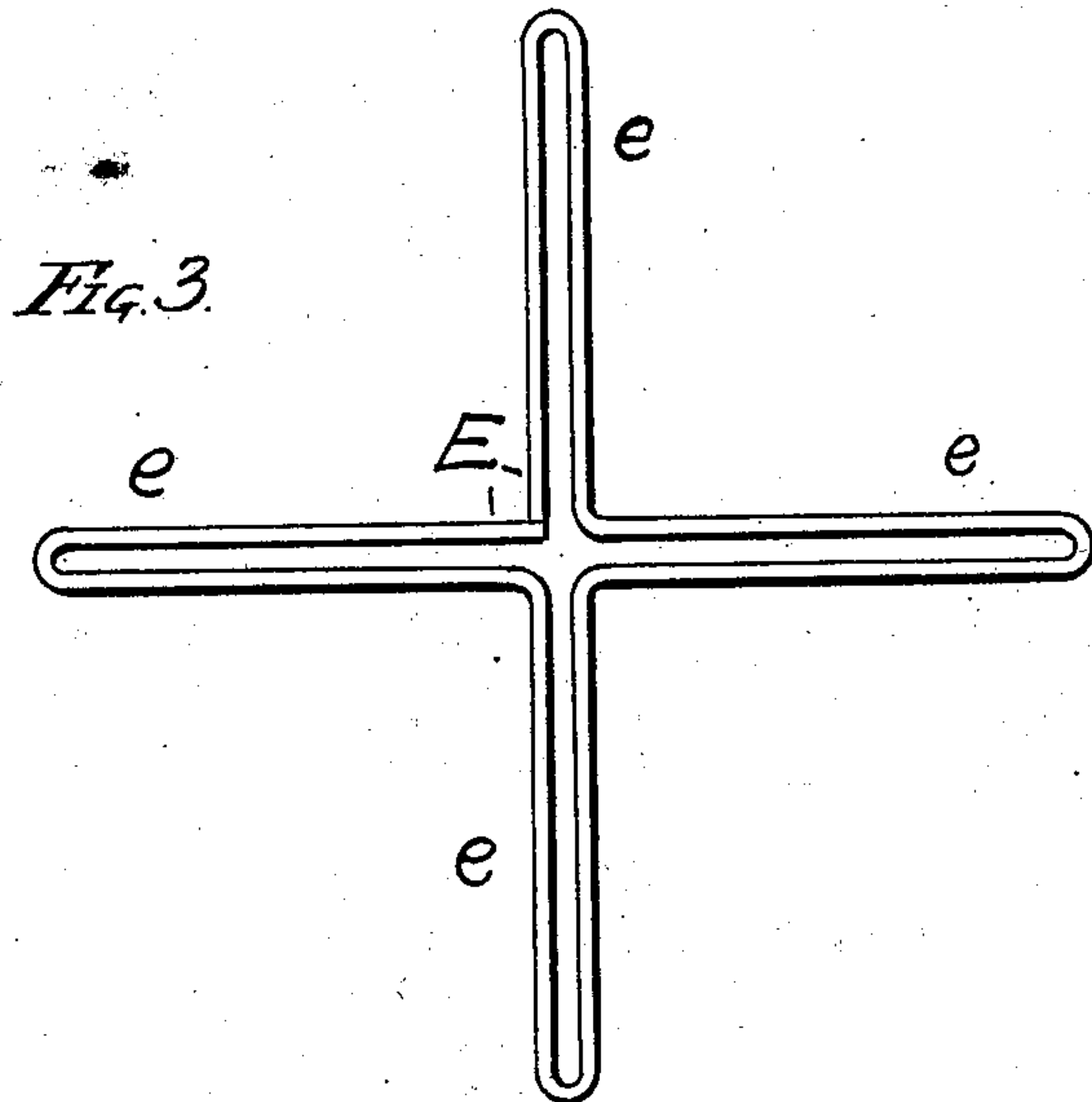
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UNITED STATES PATENT OFFICE.

JOSEPH SALOMON, OF CHICAGO, ILLINOIS.

WIRE FURNITURE.

SPECIFICATION forming part of Letters Patent No. 751,419, dated February 2, 1904.

Application filed September 11, 1902. Serial No. 122,927. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH SALOMON, a citizen of the United States of America, and a resident of the city of Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Wire Furniture, of which the following is a specification.

My invention relates to chairs, stools, tables, and other similar articles of the kind commonly known as "wire furniture," in which the top is supported by a framework of wire or small rods twisted or framed together.

The object of my invention is to so construct the lower or supporting portions of such furniture as to give the highest degree of strength, solidity, and stiffness; to provide a support beneath the top for various articles, to enable the various parts to be readily assembled for use or disassembled for shipment, and to afford a design pleasing to the eye and cheap in construction.

The principles of my invention may be illustrated by reference to the chair shown in the drawings, in which—

Figure 1 is a front view of a chair constructed in conformity with the principles of my invention, as hereinafter set forth. Fig. 2 shows a sectional view of the central clamp. Fig. 3 represents the central brace or spider by which the legs are secured together. Fig. 4 shows the same, the central portions thereof being gathered together within the rosette, which forms the upper part of the clamping device. Fig. 5 represents the same looked at from below, and Fig. 6 is a side view thereof.

Further referring to the drawings, in which like letters and characters of reference denote like parts throughout, the chair (shown in Fig. 1) consists of a seat or top A with a back B and the supporting-legs C secured thereto. The chair illustrated exhibits a well-known construction, in which the top consists of the wooden portion or seat surrounded by a metallic rim *a*, to which, by bolts *a'*, the back and legs are attached. The legs C are preferably of symmetrical construction and may be made by bending a wire or light metallic rod at the central portion, twisting the central portions of the several arms together into in-

terlacing spirals *c* and spreading the free end *c'* of the rod to a V shape at the upper portion, at which they are attached to the chair-seat. The central portion of the rod *c'* becomes a foot of the chair and should be turned outwardly from the center to afford a broader and more substantial base. At a suitable height from the chair-base the convolutions of the several legs should be open or expanded to form eyes D.

A brace or spider to connect and secure the legs together is shown in Fig. 3. It should consist of a continuous rod or wire having the free ends E and the whole so shaped as to provide arms *e*, which correspond in number to the several legs of the article of furniture. In assembling the same the free ends of the wire spider are opened sufficiently to allow them to be slipped through the eyes D of the several legs, which are to be disposed one at each of the several arms. The upper portions of the legs are then secured by the bolts *a'* or other suitable means to the chair-seat, taking

In order to explain the object of our invention, it is necessary to call attention to a certain detail, or the like. To obtain proper rigidity, I provide a central clamp, which consists of an upper portion or rosette F, a washer *f*, and a connecting-bolt *f'*. The upper portion of said clamp is shown in Fig. 5 as looked at from below. It has lugs G quadrantly disposed thereon and separated from each other by pairs of transverse grooves *g*, whose size represents the segment of a circle corresponding to the diameter of the wire of which the spider is composed. After the several parts are assembled as above the central portions or proximate angles of the spider are drawn together and seated within the grooves of the rosette F, where they are held in the position shown in Fig. 4 by the lugs G. The washer *f* being then placed on the under side, the bolt *f'* is passed through the opening *g'* and the corresponding opening in the washer *f*. When the nut is turned into place, the whole acts to secure the several portions of the spider, including its free ends, firmly together as one structure.

In the construction shown it will be seen that the legs are double throughout their

length, giving strength and stiffness thereto, that the construction and attachment of the spider at the center gives a full bracing result without subjecting the free ends to the expense and uncertainties of a brazing process, and that the most effective interstrengthening of the several legs is accomplished by trussing each to the one diagonally opposite. The construction shown also permits the most convenience to the user, as his feet may be placed in any comfortable position under the furniture without being interfered with by braces directly connecting the legs, and when applied to a chair the whole provides a convenient support for a hat or other article of apparel.

The application of my invention, as already stated, is not limited in its application to any particular article of furniture. The material used in its construction may be of any size or sectional form, all of which are to be understood to be included in the words "wire or rods" as used throughout this specification, and which words are to be considered alternative and equivalent to each other, and many variations may be made and still be within the scope thereof.

I claim and desire to secure by Letters Patent—

1. In an article of furniture, a top, supporting-legs for the top of wire twisted together, and a spider of continuous wire having arms radiating from a central point corresponding in number to the legs and severally adapted to engage the same, substantially as shown and described.

2. In an article of furniture, a top, supporting-legs for the top of wire twisted together, eyes in the twisted portions thereof, and a spider of continuous wire having arms radiating from a central point corresponding in number to the legs and severally adapted to engage the eyes, substantially as shown and described.

3. In an article of furniture, a top, supporting-legs therefor, an integral spider comprising a plurality of double radiating arms engaging said legs, and a clamping means engaging the inner end of each of said arms.

4. In an article of furniture, a top, support-

ing-legs, a spider of continuous wire formed into a plurality of arms engaging said legs, said wire being doubled upon itself to form each of said arms and a clamping means engaging each of said arms.

5. In an article of furniture, a top, supporting-legs for the top of wire twisted together, eyes in the twisted portions thereof, a spider made of a continuous wire having arms corresponding in number to the legs and severally adapted to engage the same, and a clamp to secure together the central portions of the spider, substantially as shown and described.

6. In an article of furniture, a top, supporting-legs of rods twisted together for a portion of their length, eyes in the twisted portion, and a spider to connect and brace the legs, said spider being made of a continuous wire with the free ends at the center, the intermediate portions forming arms radiating from the center and adapted to pass through the eyes in the legs, substantially as shown and described.

7. In an article of furniture, a top, supporting-legs of rods twisted together for a portion of their length, eyes in the twisted portion, a spider to connect and brace the legs said spider being made of a continuous wire with free ends at the center, the intermediate portions forming arms radiating from the center and adapted to pass through the eyes in the legs, and a clamp to secure together the free ends of the wire and the central portions of the spider, substantially as shown and described.

8. A brace for the legs of tables, chairs and the like comprising a wire having its ends adapted to be placed at a central point between the legs, leg-engaging arms radial from such central point formed of the intermediate portions of the wire, and means to secure together the ends of the wire and the proximate ends of the arms, substantially as set forth.

In witness whereof I have hereunto set my hand this 9th day of September, A. D. 1902.

JOSEPH SALOMON.

Witnesses:

C. K. CHAMBERLAIN,

A. S. PHILLIPS.