

(No Model.)

2 Sheets—Sheet 1.

W. VOGLER.
SEAT OR CUSHION.

No. 527,633.

Patented Oct. 16, 1894.

Fig. 1.

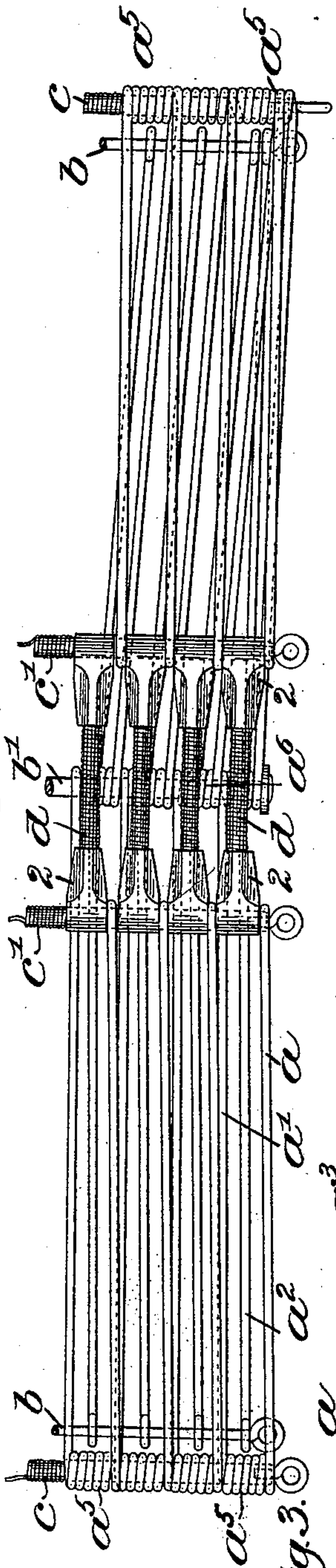


Fig. 2.

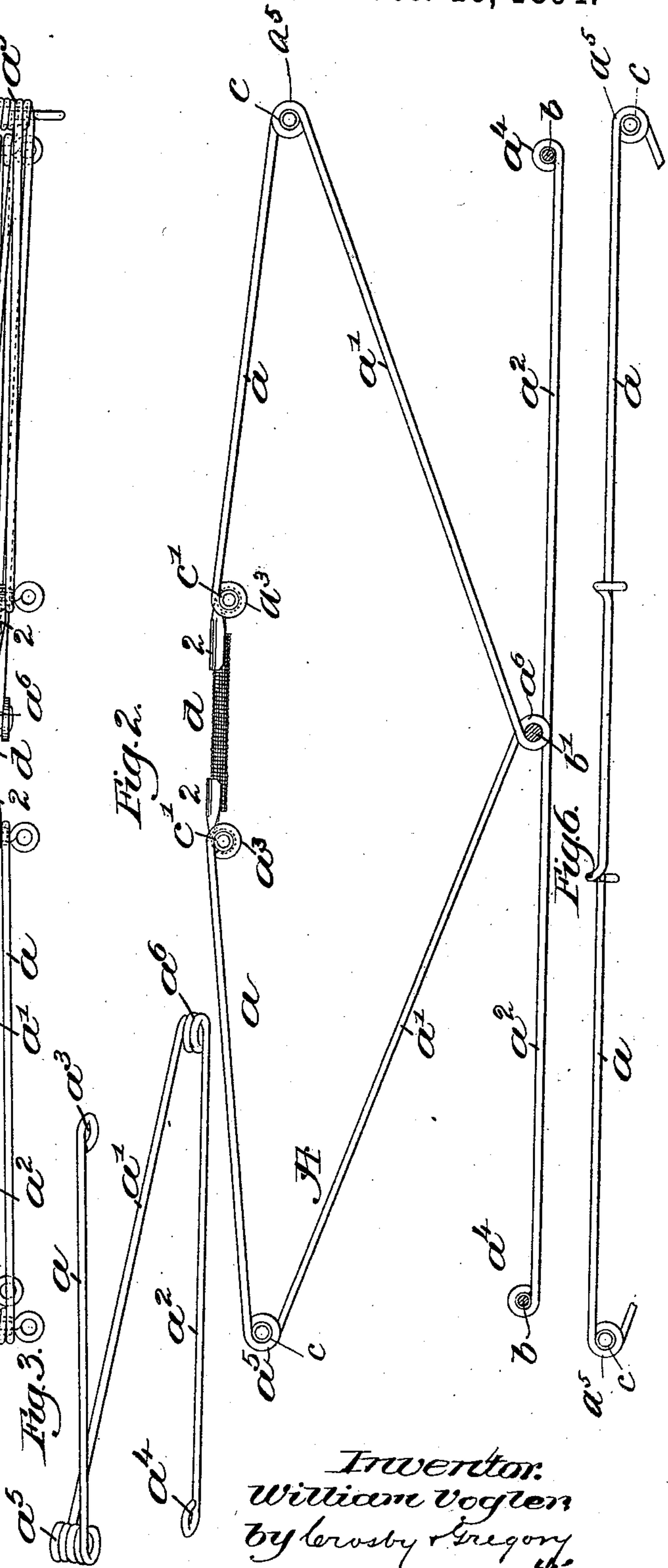


Fig. 3.

Witnesses.

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Thomas J. Drummond.

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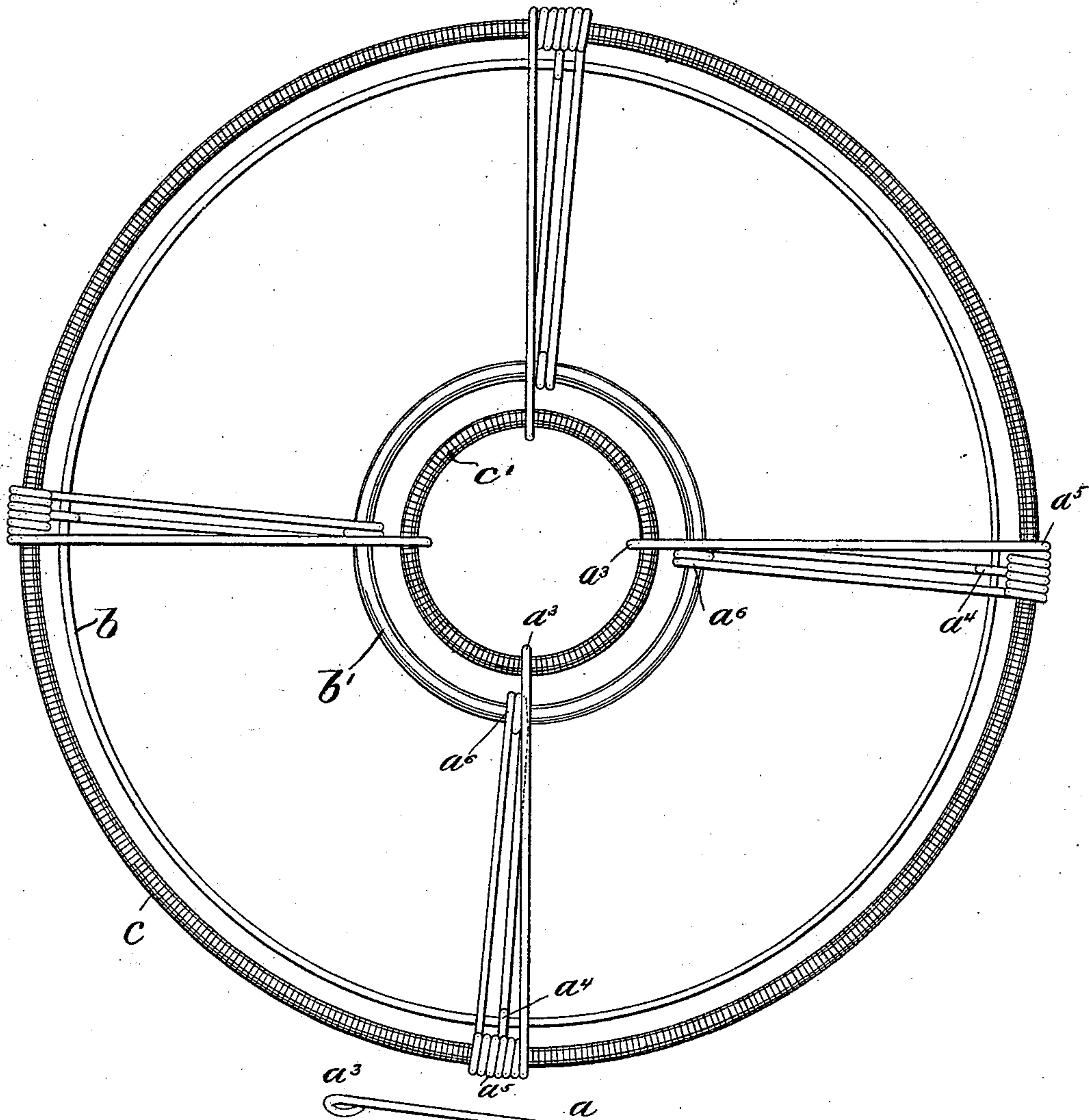
2 Sheets—Sheet 2.

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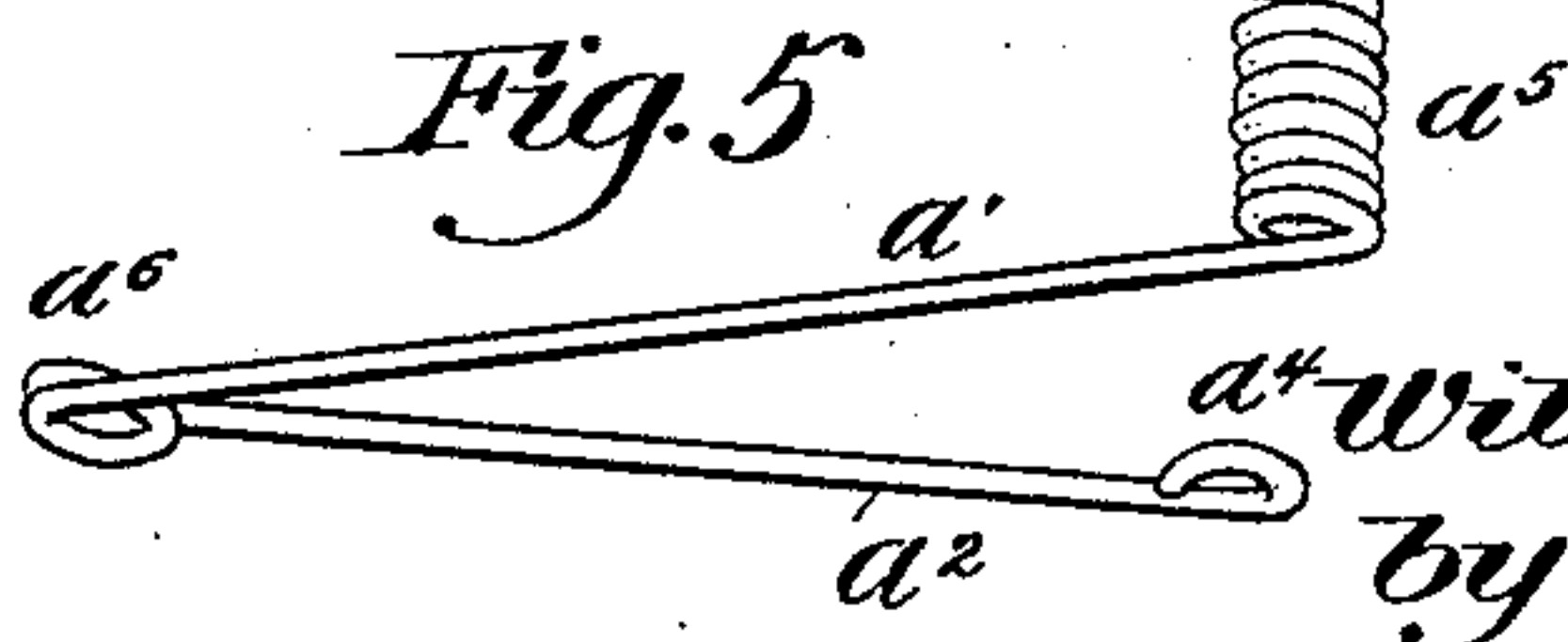
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Fig. 4.



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Fig. 5



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UNITED STATES PATENT OFFICE.

WILLIAM VOGLER, OF SOMERVILLE, MASSACHUSETTS.

SEAT OR CUSHION.

SPECIFICATION forming part of Letters Patent No. 527,633, dated October 16, 1894.

Application filed January 2, 1894. Serial No. 495,417. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM VOGLER, of Somerville, county of Middlesex, State of Massachusetts, have invented an Improvement in
5 Seats or Cushions, of which the following description, in connection with the accompanying drawings, is a specification, like letters and figures on the drawings representing like parts.

10 This invention has for its object the production of a seat or cushion adapted for use in connection with furniture, chairs, &c., where spring or upholstered seats are employed, and is an improvement upon the class
15 of seat or cushion represented in my application, Serial No. 481,816, filed on the 29th day of July, 1893.

The cushion described in the application referred to consists essentially of three frames
20 connected by springs, one of the frames co-operating with said springs being free to yield or expand by pressure applied to the cushion to collapse the same.

In this present invention I have made the
25 supporting rods, one or more, from coiled springs, and have provided a base for the supporting rods, and have made other improvements which will be hereinafter described.

30 Among other uses to which the seat herein to be claimed may be put, is that for chair and furniture seats to take the place of ordinary coiled springs, my improved seat presenting an edge which when covered affords
35 a yielding edge above the usual side puffing.

Figure 1, in plan view, shows a sufficient portion of a seat to enable my invention to be understood. Fig. 2 is a side elevation thereof. Fig. 3 shows one of the springs detached. Figs. 4 and 5 show parts of a modified form of seat, and Fig. 6, yet another modification.

The seat shown in Figs. 1 and 2 is of a shape
45 suitable for a lounge or sofa, that is, it is supposed to be longer than it is wide, but the particular outline or shape of the seat may be varied at will without departing from my invention, as it will be obvious from the description hereinafter contained that the independent or individual springs may be arranged in
50 connection with supporting rods or bars of any shape.

My improved seat is composed essentially of a series of wire springs A having preferably three branches a, a', a^2 , the free extremity of the branch a being coiled to form an eye a^3 , while the free extremity of the branch a^2 is bent to form an eye a^4 , the wire at the junction of the arms a, a^2 , with the portion a' being coiled into the form of springs as at
55 a^5, a^6 .

The loops or eyes a^4 are entered by a bar or rod b , preferably a rigid wire, and the spring coils a^6 are entered preferably by a wire or rod b' .
60

The spring coils a^5 are entered by coiled wire springs c , and the eyes a^3 by coiled wire springs c' , and, as represented in Figs. 1 and 2, the coiled springs c' , located at and about the middle of the seat, are further united by
65 elastic or spring links d , shown also as coiled wire springs, attached to buckles or hooks 2, 2, which engage the said coiled wire springs c' .

In the use of my invention, the portions of the seat indicated by the rods b, b', b , will
70 have a firm foundation on a suitable frame of desired construction, and a weight applied to the top of the seat will depress the same, the top of the seat, composed chiefly of the arms a and, as represented, of the spring
75 links d , yielding under the weight upon it, and at the same time the wire springs c and c' yield more or less or bend to conform to the weight, or to the requirements of the weight, thus making a very easy, flexible but
80 strong seat.

The seat may be covered with upholstery and a suitable amount of hair or other wadding, and the portions of the seat represented by the coils a^5 and coiled spring c and coils a^4
85 and rod b may be spanned by a strip or binding of flexible material, such as commonly designated in upholstery as the puffing at the front of a seat, the coils a^5 when covered constituting a round flexible edge, such as required in first-class upholstery.
90

It will be understood that I do not limit my invention to the shape of the seat or cushion. Instead of the springs A and their connecting or supporting rods being arranged
95 to form a rectangular seat, they may be arranged to form a circular seat, as shown in Fig. 4, in which the coils a^5 of the springs A are entered by or strung upon a circular
100

coiled spring c , the coils a^4 being entered by or strung upon a circular rod b , and the inner coils a^3 and a^6 of said springs A are entered by or strung upon a circular coiled spring c' and a circular rod b' respectively.

In the modification Fig. 4 the spring links d of Fig. 1 are omitted, as they may be, for that shape of cushion or seat, it being applicable for round seated railway chairs, &c.

10 In view of the above description, I denominate the springs c and c' and the rods b' , as a supporting frame, the rod or rods b serving as a foot-holder for the arms a^2 constituting the bottom of the seat.

15 In the modification Fig. 6, instead of employing the yielding links d , and the spiral springs c' , I have made the arms a, a , longer so as to overlap and have provided the ends of said arms with eyes turned over from the side so that the eyes of each of said arms will embrace the other arm and slide thereon when weight is applied to the top of the seat.

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

1. A seat or cushion composed of a series of three-armed springs, each containing between its ends two spring coils, a supporting frame for said three-armed springs comprising rods and coiled springs which are extended through said spring coils, a foot-holder to which the ends of one of the arms of said springs are connected, and connecting means between the arms of said springs, which arms constitute the top of the seat or cushion, substantially as described.

2. A seat or cushion composed of a series of three-armed springs, each containing in its bends between its ends spring coils, and a supporting frame for said three-armed springs comprising rigid rods and coiled springs

which are extended through said spring coils, substantially as described.

3. A seat or cushion composed of a series of three-armed springs, each containing between its ends spring coils, and its free ends terminating in eyes, and a supporting frame for said three-armed springs comprising rigid rods and coiled springs upon which said three-armed springs are strung by passing said rods and coiled springs through the spring coils and eyes, substantially as shown and described.

4. A seat or cushion composed of a series of three-armed springs, each containing between its ends spring coils, and its free ends terminating in eyes, a supporting frame for said three-armed springs comprising rigid rods and coiled springs upon which said three-armed springs are strung by passing said rods and coiled springs through the spring coils and eyes, and connecting spring-links for the upper free ends of said three-armed springs, substantially as described.

5. A seat or cushion composed of a supporting frame, comprising rods or bars, one or more of which are composed of coiled springs, a suitable foot-holder composed of a rigid rod, and a series of three-armed springs provided with coils and eyes by which they are strung upon said supporting frame and foot holder, the coiled springs of said supporting frame engaging the uppermost coils and eyes of the three-armed springs, substantially as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM VOGLER.

Witnesses:

GEO. W. GREGORY,
EMMA J. BENNETT.