No. 621,642. Patented Mar. 21, 1899.

A. EVANS.

SEAT.

(Application filed May 18, 1898.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

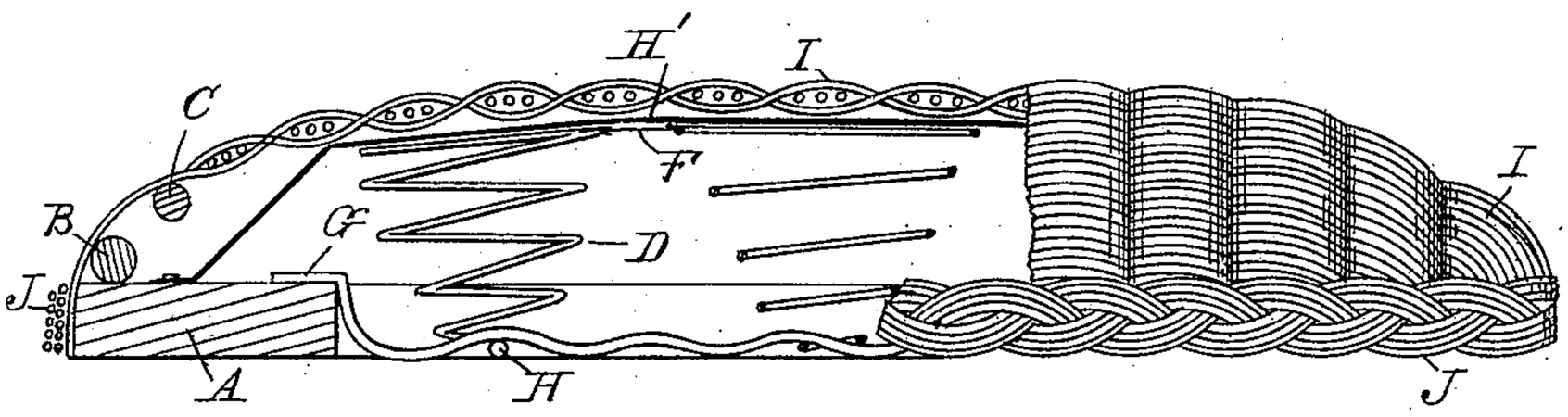
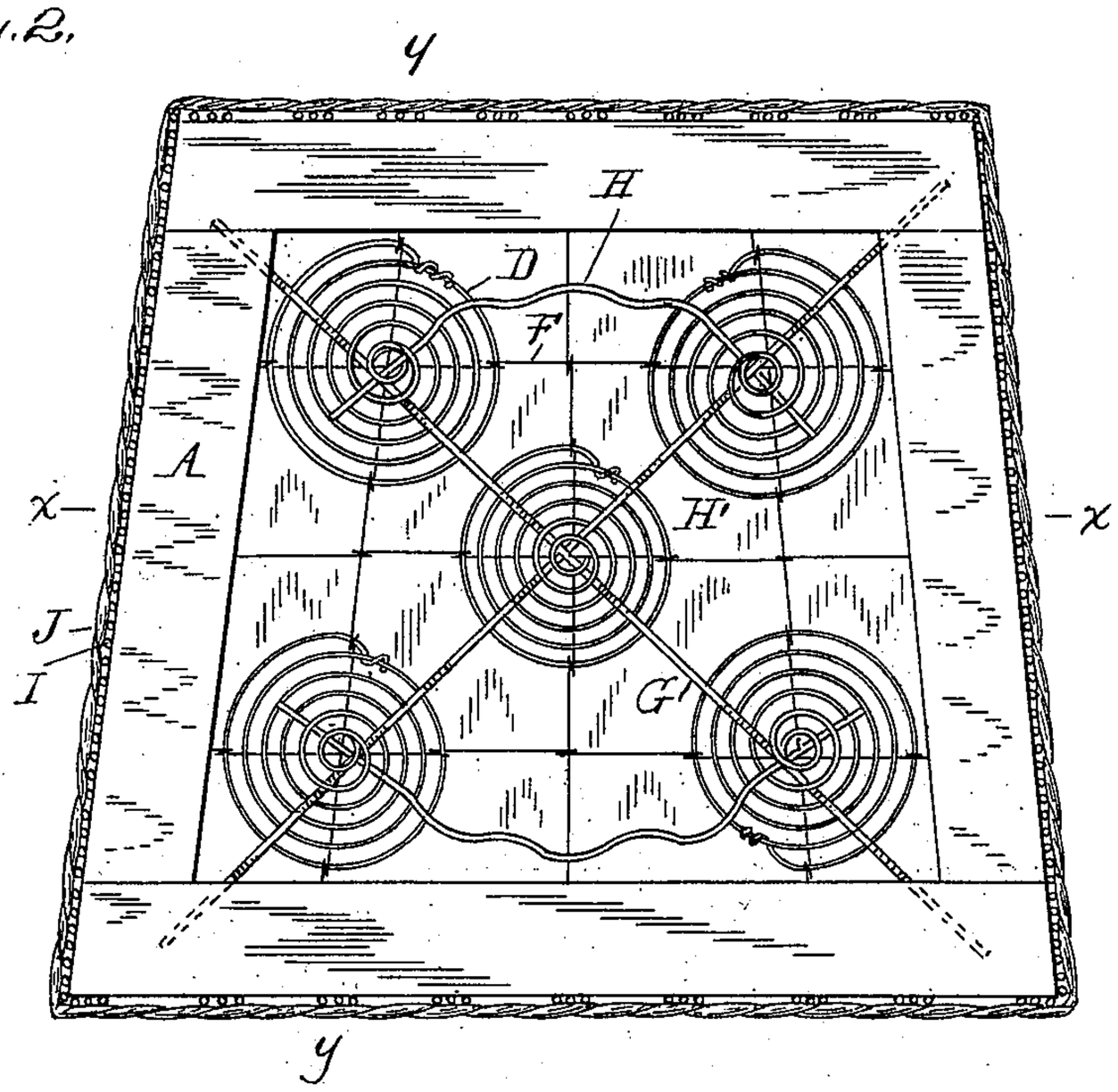


Fig. 2.



Witnesses
Otto F. Baetzhold
M. B. Dougherty

Inventor
Alfred Evans
By Hood Sprague & Sun
Attys.

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(No Model.) 2 Sheets—Sheet 2.

Fig. 3.

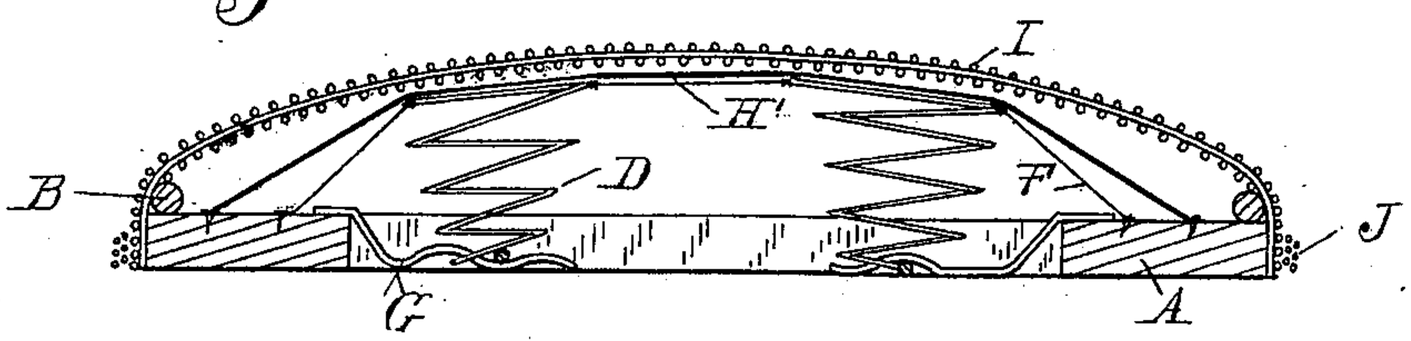


Fig. 4.

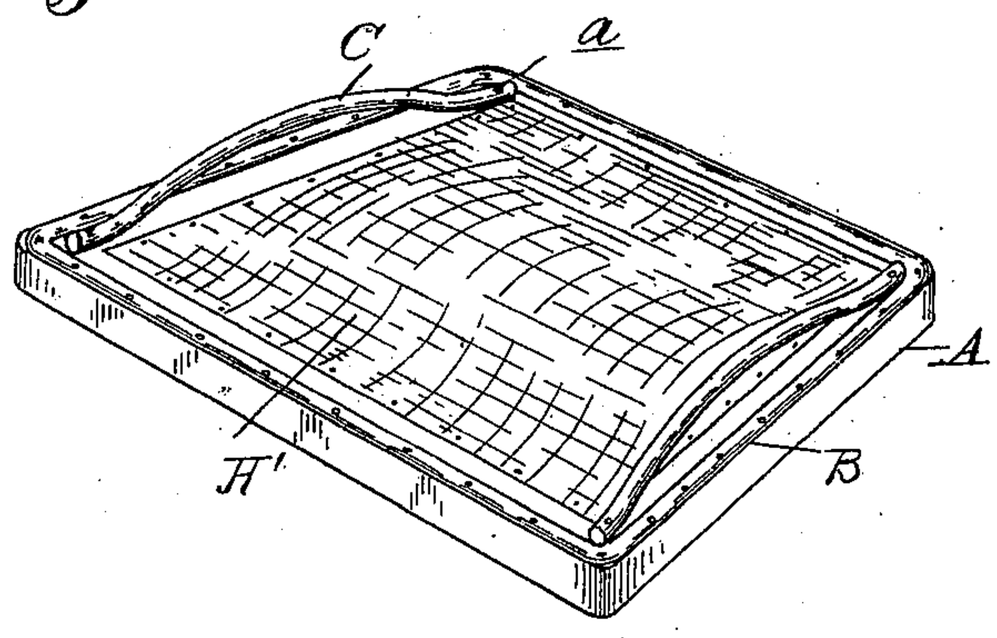
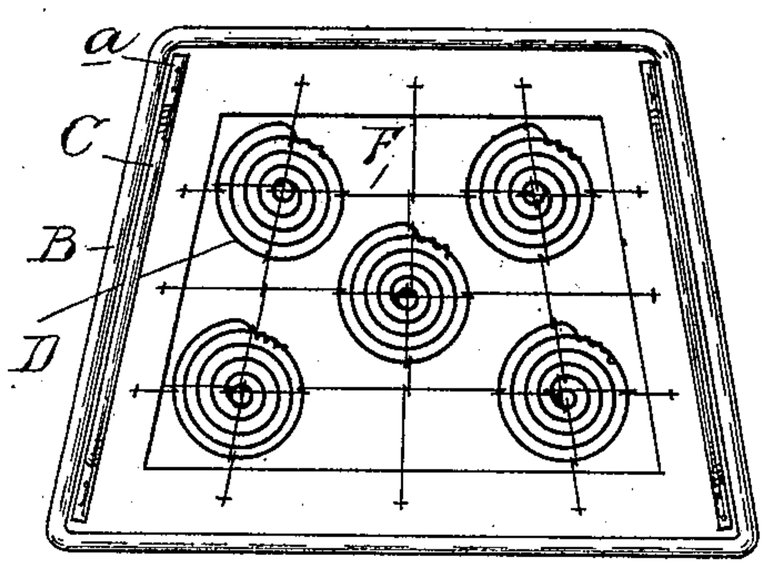


Fig. 5.



Witnesses
Otto A. Bachtell
M. B. Dougherty.

Inventor
Alfred E. Evans
By Lyon & Sprague Sons
Attys.

UNITED STATES PATENT OFFICE.

ALFRED EVANS, OF DETROIT, MICHIGAN, ASSIGNOR TO THE MURPHY, WASEY & COMPANY, OF SAME PLACE.

SEAT.

SPECIFICATION forming part of Letters Patent No. 621,642, dated March 21, 1899.

Application filed May 18, 1898. Serial No. 681,013. (No model.)

To all whom it may concern:

Be it known that I, ALFRED EVANS, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Seats, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates more particularly to that kind of chair seat or cushion in which the seat proper is formed of woven-reed fabric; and the invention consists in the peculiar construction of the seat whereby it is cushioned by means of springs, all as more fully hereinafter described and shown in the drawings.

Figure 1 is a front elevation of the seat, partly in vertical section, substantially on line *x x*, Fig. 2. Fig. 2 is a bottom plan view of the seat. Fig. 3 is a vertical section on line *y y*, Fig. 2. Fig. 4 is a perspective view of the seat without the reed covering. Fig. 5 is a top plan view of the seat without the reed and canvas covering.

A is a seat-frame formed of four wooden frame-bars in the usual manner.

B is a round strip, preferably cane or reed, secured on top of the seat-frame around the outer edge.

C C are two upwardly-bowed strips of cane or reed placed adjacent to the strip B along the sides of the frame and with their ends secured thereto by nails *a*.

D are helical springs secured in the opening of the seat-frame.

F are cords attached at their ends to the top of the frame and interlaced with each other and with the top rounds of the springs to firmly hold the latter in position within the opening of the seat-frame in the well-known manner.

G are crimped-wire stays resting with their ends upon the seat-frame and extending diagonally beneath the springs and supporting the same in position in the frame in the well-known manner.

H are stays interlocking with the stays G.

H′ is a covering of canvas or like fabric stretched over the top of the springs and firmly secured along its edges to the top of the frame.

I is a fabric of reed extending over the entire seat-frame and canvas and down over the sides of the frame, and J is a flexible strip, preferably a braid made of reed, nailed to the sides of the frame over the ends of the warp and weft of the fabric, which extend down over the front and rear edges and the edges on the sides of the frame, respectively, thereby securing the fabric to the frame.

The parts being constructed as described and shown, it will be seen that the construction is very simple, and the seat obtained in this manner has the shape of a neatly-upholstered seat and is quite as comfortable to sit on, while at the same time it is of far superior wearing quality and maintains its perfect shape much better.

The strips B and C, secured to the frame, build up the seat along the edges and at the same time prevent the breaking down of the fabric, and the springs give the seat the perfect crowning shape which it has, and this is best obtained by placing one spring in each corner and one in the center. The springs should be of comparatively light wire, and as they bear directly against the fabric with the mere interposition of the canvas they do not interfere with the innate elasticity of the fabric, while on the other hand they prevent any permanent deformity to take place under rough usage.

What I claim as my invention is—

In a chair seat or cushion, the combination of the frame A, the strips B secured around the top edge, the bowed strips C along the sides, the springs D secured within the opening of the frame, the canvas H′ secured along its edges to the top of the frame and bearing upon the top of the springs, the woven-reed fabric I covering said canvas and frame and the strip or braid J around the sides of the frame and securing the fabric I in position.

In testimony whereof I affix my signature in presence of two witnesses.

ALFRED EVANS.

Witnesses:
M. B. O'DOGHERTY,
OTTO F. BARTHEL.