

No. 651,928.

Patented June 19, 1900.

E. G. NEWMAN.  
UPHOLSTERY.

(Application filed Aug. 21, 1899.)

(No Model.)

Fig. 1.

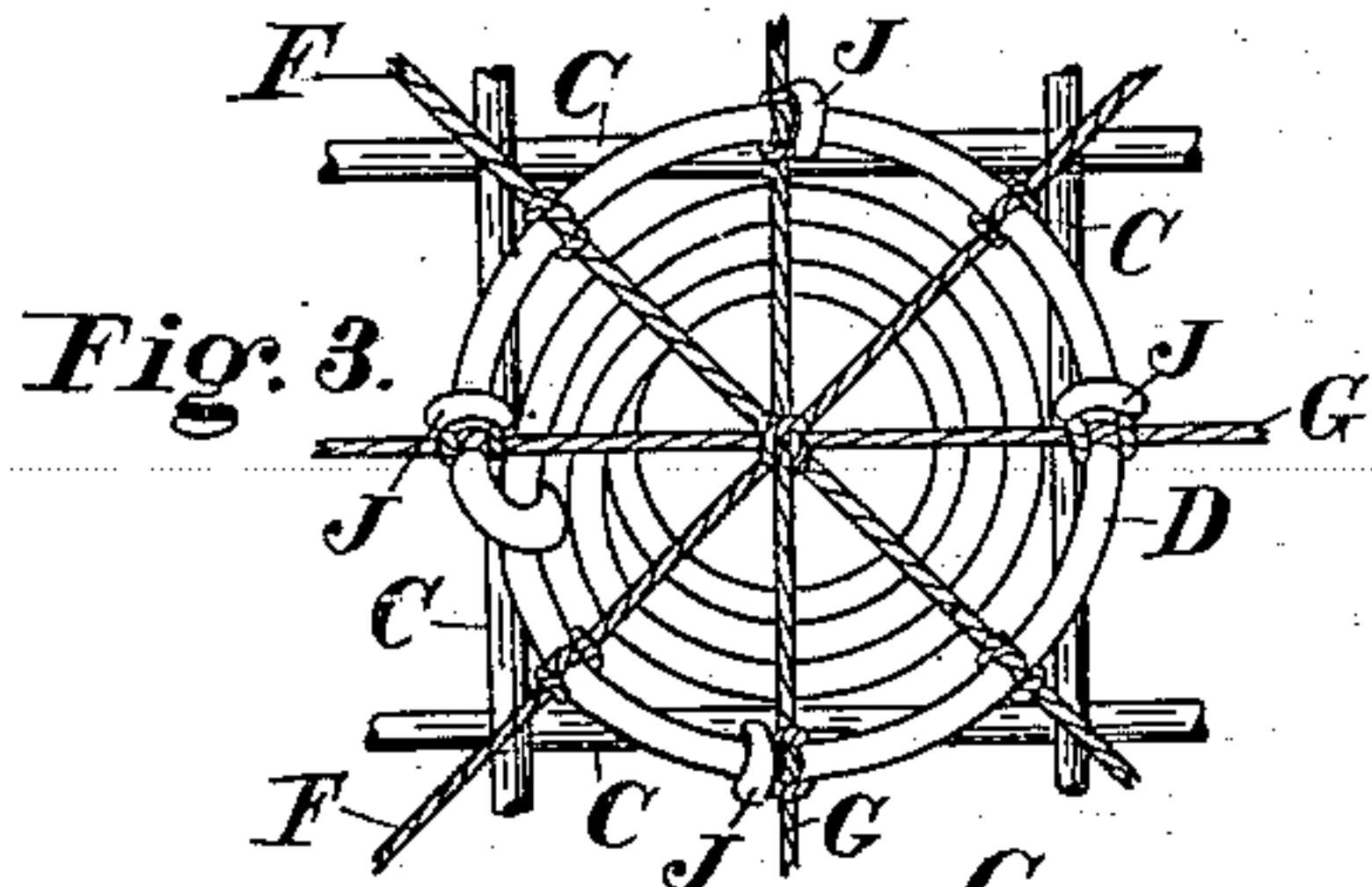
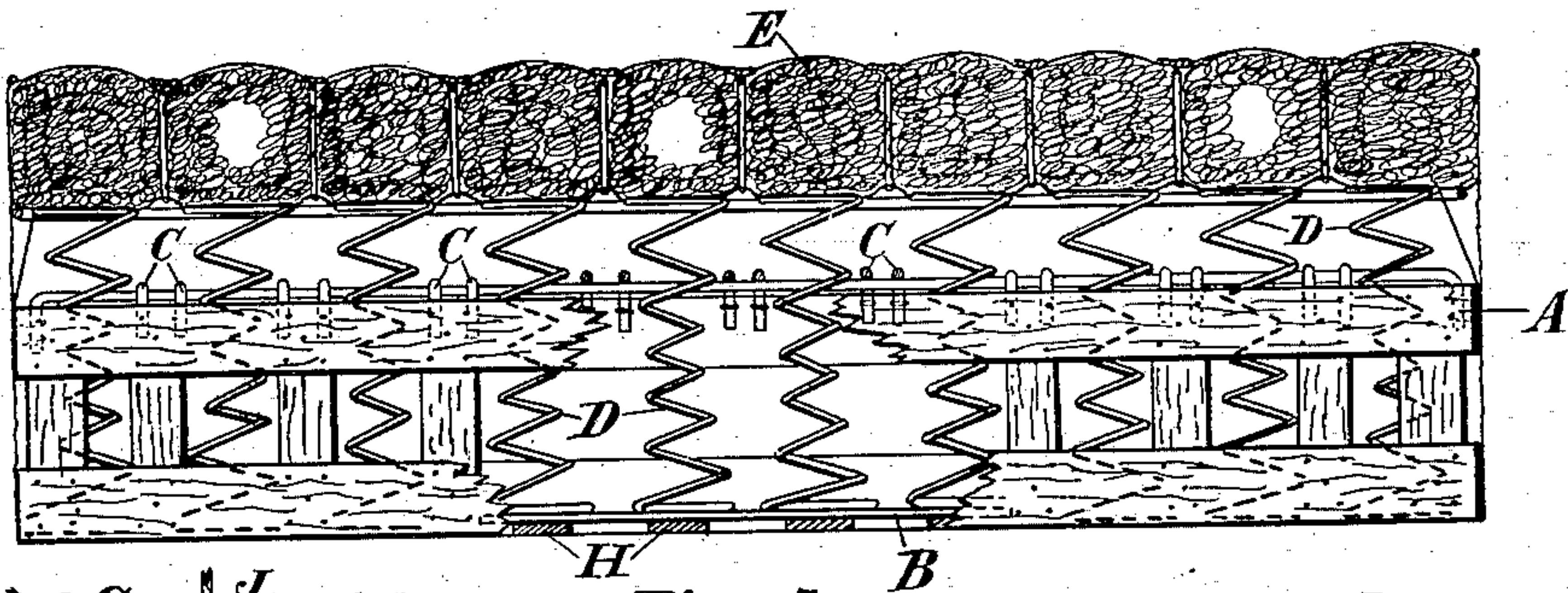


Fig. 5.

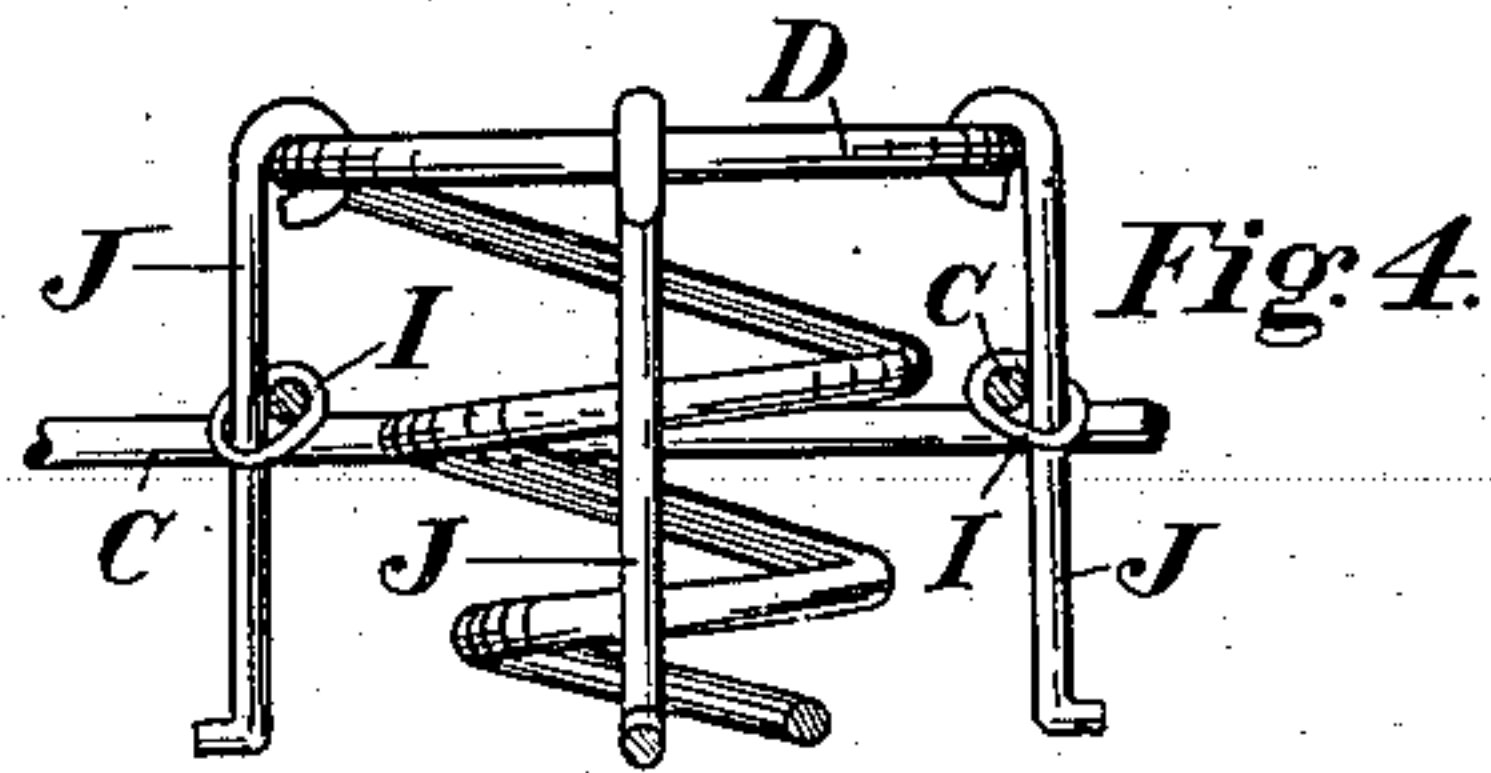
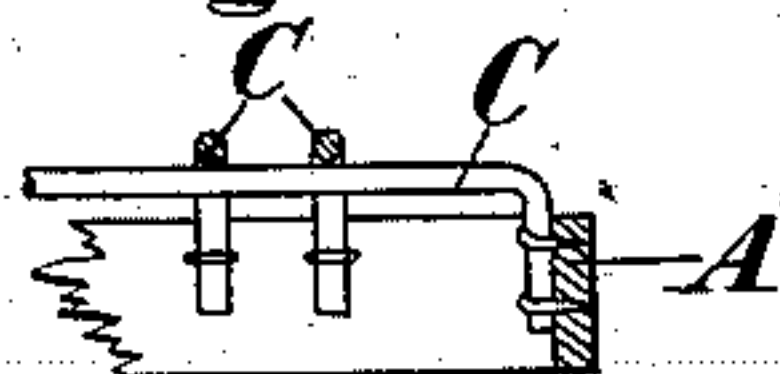
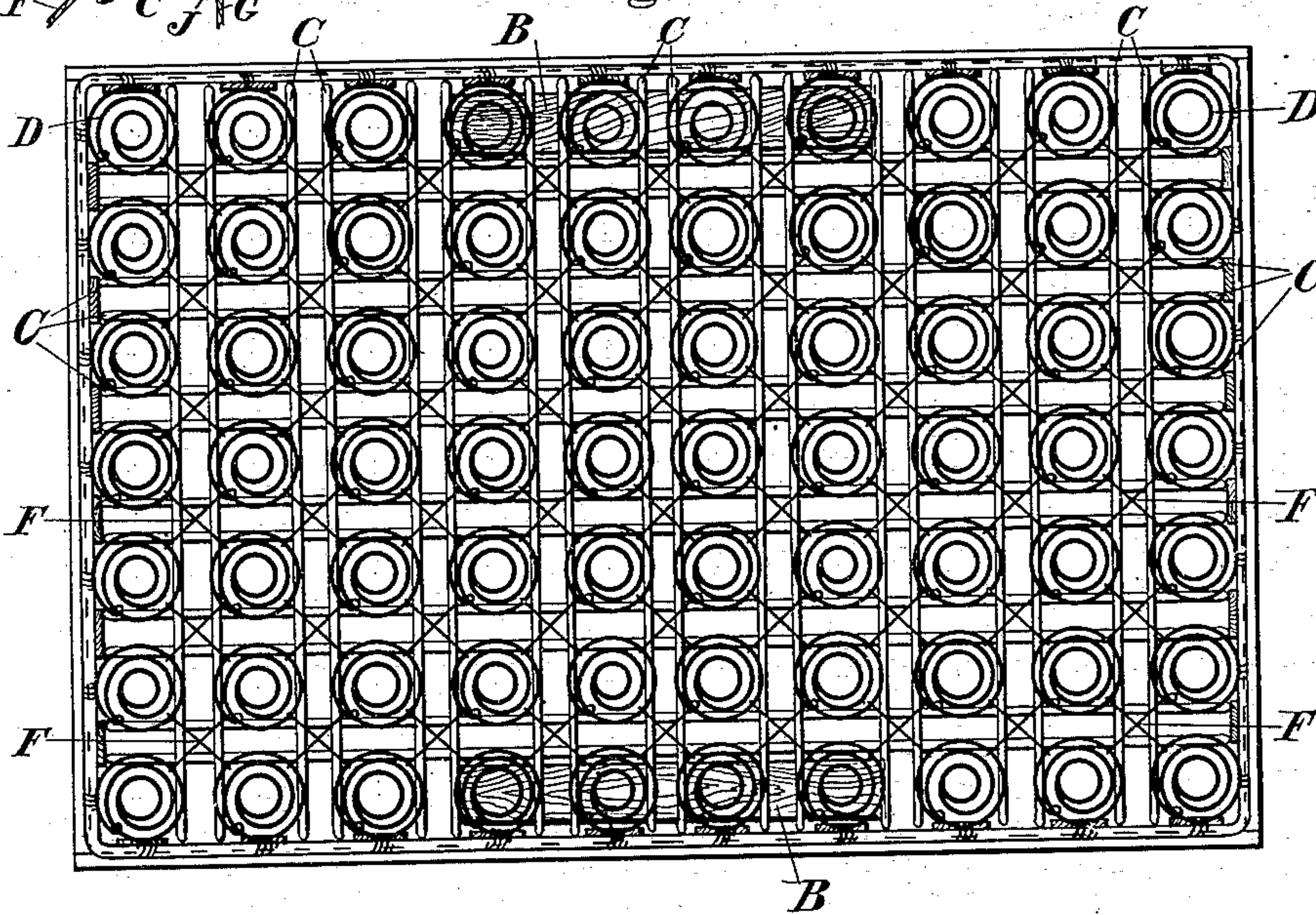


Fig. 2.



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# UNITED STATES PATENT OFFICE.

ERIC G. NEWMAN, OF FERNDALE, CALIFORNIA.

## UPHOLSTERY.

SPECIFICATION forming part of Letters Patent No. 651,928, dated June 19, 1900.

Application filed August 21, 1899. Serial No. 727,932. (No model.)

*To all whom it may concern:*

Be it known that I, ERIC G. NEWMAN, a citizen of the United States, residing at Ferndale, county of Humboldt, and State of California, have invented certain new and useful Improvements in Upholstery; and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to mattresses and like upholstered articles and to certain new and useful improvements therein.

My improvements consist in constructing mattresses or other similar upholstered articles in the manner hereinafter fully described, and specifically pointed out in the claims.

The objects of my invention are to provide a lighter kind of frames freely accessible for inspection and repairs and to attain greater strength and durability of the various parts, also more elasticity in structures of the kind.

To these ends I construct mattresses and like upholstered articles as illustrated in the drawings herewith, forming a part of this specification, in which—

Figure 1 is an edge view of a common mattress embodying my improvements, except the lashing-cords and guides for the springs, which are omitted to make the drawing more clear. Fig. 2 is a plan view of the same mattress with the cushion removed, showing the auxiliary spring-wires and in part the spring-lashings. Fig. 3 is an enlarged plan view of the upper half of one of the coil-springs with its side guides and lashing-cords. Fig. 4 is a side view of Fig. 3 with the side guides as applied to the top of the spring. Fig. 5 is a detail showing the manner of attaching the auxiliary spring-rods to the main frame.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

A is the main frame, composed of wooden bars or slats and open on all sides, as shown, and is much lighter than the usual inclosed boxes. This lightness is secured by forming the side framing of thin stock placed vertically edgewise in two parallel horizontal rows, one above the other, joined by similar intermediate vertical slats, as shown, so that the thinnest dimensions of all the parts are hori-

zontal. Across the bottom of the said framing are placed the usual bearing-slats H. Upon these bearing-slats, at the front and rear edges, are placed the reinforcing-boards B to receive the principal pressure at the sides of the mattress, where people sit on the edge.

C represents cross spring-rods that supplement the coil-springs D when the latter are compressed beyond the degree intended or to which their strength is adjusted.

E is a common upholstered top, such as is employed in mattresses or other household furniture of any kind.

F and G are cord lashings to hold the coiled springs D in place, so that when compressed they will remain vertical and settle fairly on the rods C.

The main frame A, being open, permits inspection and repair of the springs at any time, enables the mattress or other structure to be kept clean, requires less timber, and is lighter to handle than a solid box.

The reinforcing-bottom B is made long enough to rest upon three or more of the bottom slats H and is placed at the sides, where the mattress, by reason of persons sitting with their whole weight at this point, requires additional strength. The coil-springs D that rest upon this piece B are by preference made stronger than the rest and are more carefully fastened. The upholstering E can be of any suitable kind such as is employed in household furniture. I speak especially of mattresses, because these call for the most extensive use of my improvements.

The auxiliary spring-rods C are attached to the sides and ends of the frame A by staples, as shown in Fig. 5, and in case of a heavy weight on the coil-springs D receive and elastically sustain a portion of the weight, thus adapting the springs D of a certain or standard size to a wider range of use.

In some cases either the lashings F or G can be omitted and other structural changes made to suit the requirements, as in the case of chairs or other articles of small area, as will be understood by those skilled in the art of upholstery. I explain my invention especially as applied to mattresses, which because of their large size are the most difficult to maintain.

Having thus explained the nature and ob-



jects of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In upholstery, the open frame A, composed of upper and lower horizontal slats and  
5 intermediate vertical slats, the thinnest dimensions of all the said slats being horizontal, bottom slats H, reinforcing-boards B, at the front and rear edges, coil-springs D, and cross spring-rods C, secured to the upper side  
10 and end horizontal slats by their ends, and passing between the coil-springs intermediately, at a lower level than the tops of the said coil-springs, substantially as specified.

2. In upholstery, the combination of frame  
15 A, cross spring-rods C, secured at their ends to the sides and ends of the frame A, bottom slats H, coil-springs D, guide-rods J, attached

to the upper ends of springs D, said rods being movably secured in a vertical position to cross spring-rods C, and stay-lashings F, G, 20 substantially as specified.

3. In upholstery, the combination with a suitable framework, of coil-springs D, cross spring-rods C, secured at their ends to said framework, guiding rings or eyes I, secured 25 to said cross-rods, and guiding-rods J, secured to said coil-springs at the top, and passing vertically through said guiding-rings, substantially as specified.

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Witnesses:

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