

No. 811,289.

PATENTED JAN. 30, 1906.

H. S. HALE.
SEAT CUSHION.
APPLICATION FILED MAY 27, 1904.

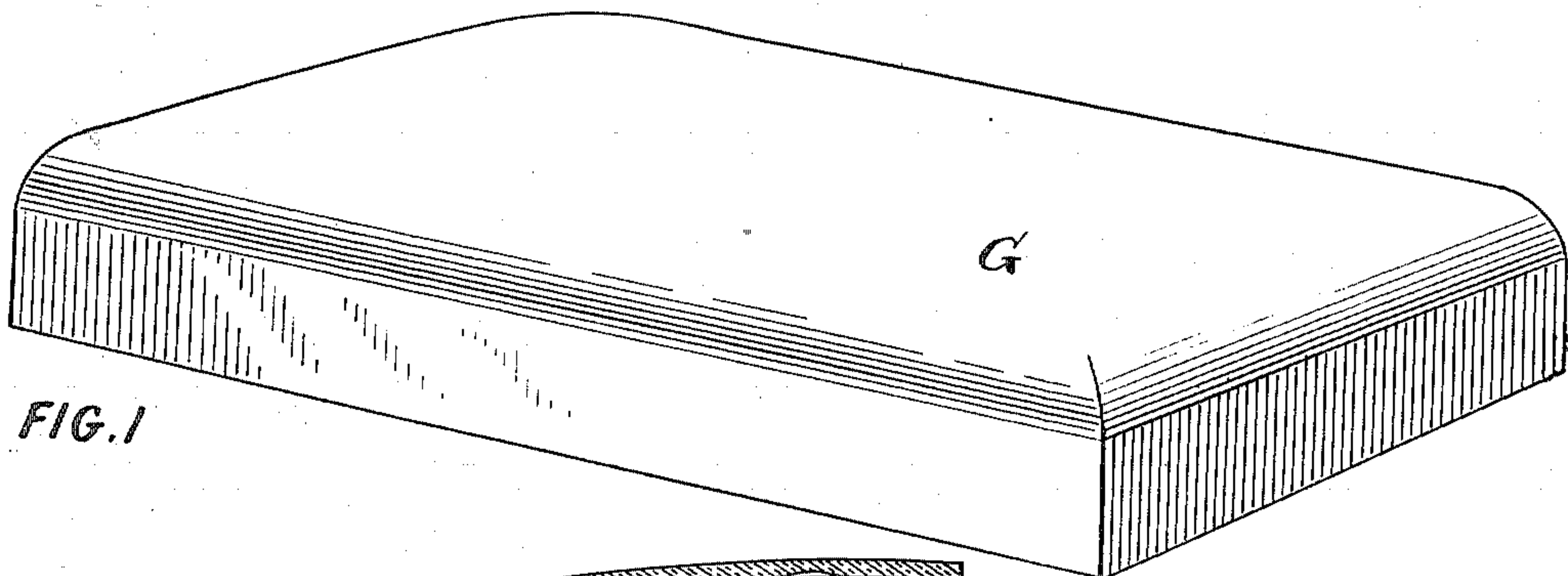


FIG. 1

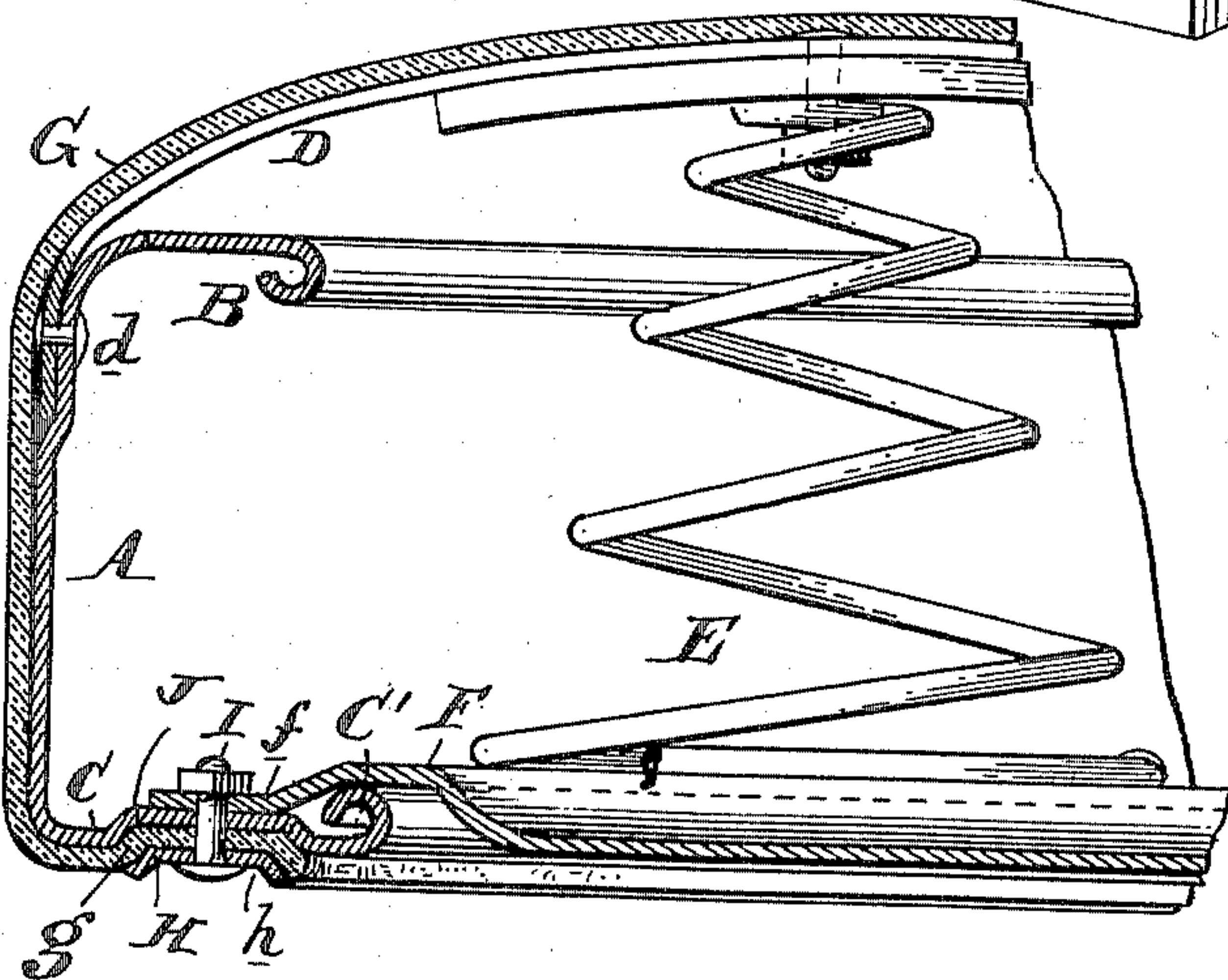


FIG. 2

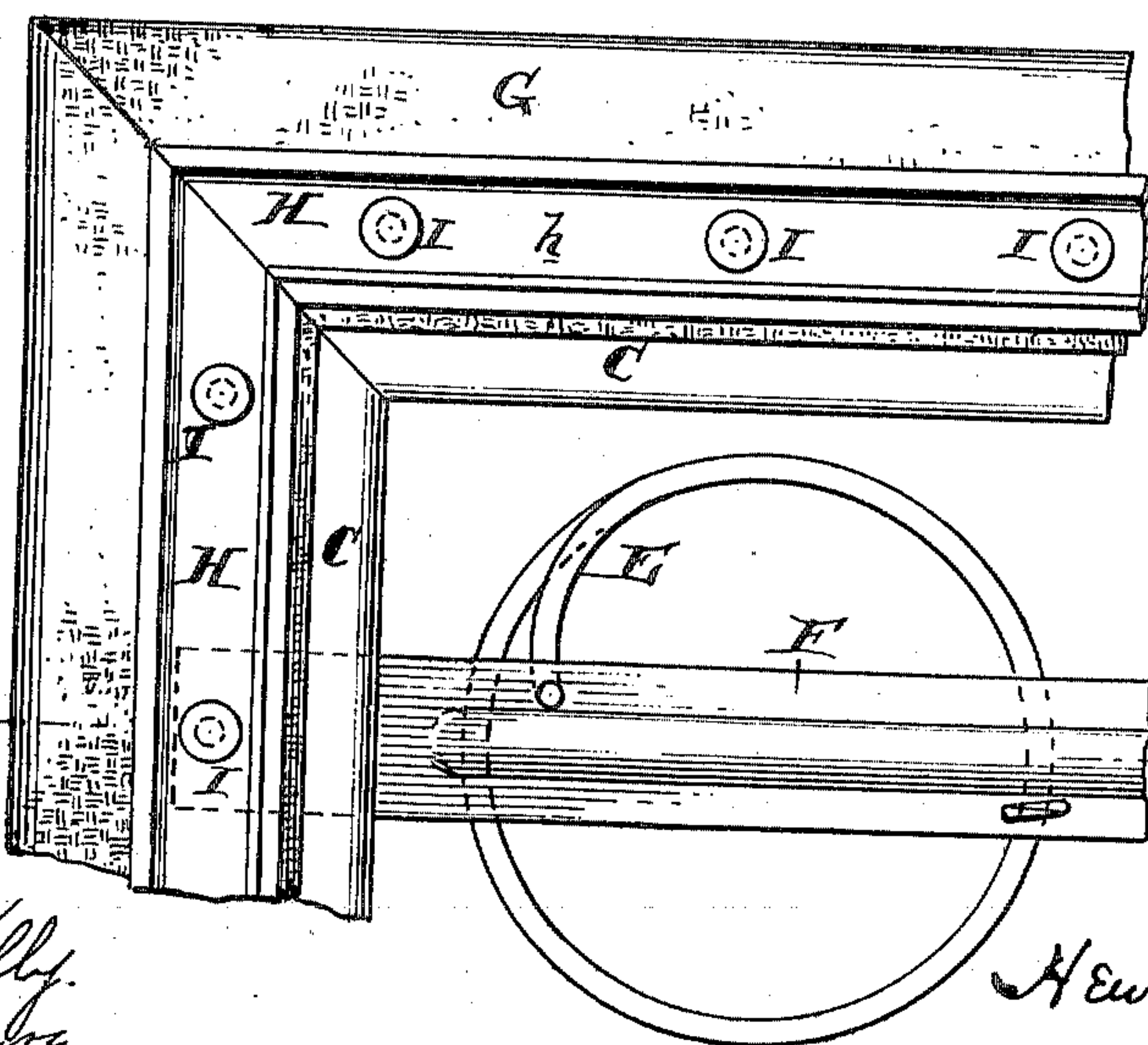


FIG. 3

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Inventor
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By his atty
[Signature]

UNITED STATES PATENT OFFICE.

HENRY S. HALE, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO THE
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SEAT-CUSHION.

No. 811,289.

Specification of Letters Patent.

Patented Jan. 30, 1906.

Application filed May 27, 1904. Serial No. 210,035.

To all whom it may concern:

Be it known that I, HENRY S. HALE, of the city and county of Philadelphia, State of Pennsylvania, have invented an Improvement in Seat-Cushions, of which the following is a specification.

My invention has reference to seat-cushions; and it consists of certain improvements which are fully set forth in the following specification and shown in the accompanying drawings, which form a part thereof.

The object of my invention is to provide a convenient and inexpensive means for securing the upholstery upon sheet-metal box-frames of seat-cushions.

In carrying out my invention I provide the seat with a box-frame having lower flanges grooved on their under sides and combined with clamping-strips fitting said grooves and adapted to clamp the edges of the upholstery tightly in the grooves, said clamping-strips being drawn tightly into place by a series of clamping-bolts.

My invention also consists in other details of construction which, together with the features above specified, will be better understood by reference to the drawings, in which—

Figure 1 is a perspective view of a seat-cushion of the character embodying my invention. Fig. 2 is a cross-section of a portion of same on line 2 2 of Fig. 3, and Fig. 3 is an inverted plan view of one corner of the seat-cushion.

A is a box-frame made of sheet metal, having the upper flanges B and lower flanges C, the latter having the grooves J and the beaded edges C'. This box-frame is preferably made of sheet metal formed into the shape shown.

D represents spring-plates secured at their ends to the sides of the box-frame A at d and sustained upon coil-springs E, which latter rest upon cross-slats F, preferably formed of sheet metal. The upholstery G extends over the spring-plates D and box-frame and the edges are brought under the lower flange C, as shown.

H represents clamping-strips and fit the grooves J, being of less cross-section than the cross-section of said grooves. These clamping-strips are preferably made of channel-iron, having the depressed or recessed portion h. The side edges are also preferably inclined, as shown, so as not to give too sharp

a bend to the upholstery at g, where it is clamped in the grooves J by the clamping-strips H. The edges of the upholstery are thus protected and not liable to fray, and the strips H act as strong portions to sustain all heavy wear and tear.

I represents clamping-bolts and extend through the clamping-strips, upholstery, and flange C to draw the clamping-strips in place. These bolts I have their heads fitted down into the grooves h of the clamping-strips I, as shown, and hence do not produce obstructions.

If desired, the slats F may rest upon the beaded edges C' of the flange C and their ends f clamped down upon the flange by the bolts I, as shown in Fig. 2.

While I prefer the construction shown, I do not confine myself to the exact details, as these may be modified in various ways without departing from the spirit of the invention.

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

1. In a seat-cushion, the combination of a sheet-metal box-frame having a lower flange beaded at its inner edge and having its under part provided with an upwardly-extending groove parallel to the beaded edge forming a recess on the under part and an upwardly-extending rib upon the upper part of said flange, transverse supports for the springs extending over the beaded edge and resting upon the upwardly-extending rib of the box-frame, springs sustained by said supports, upholstery extending over the springs and box-frame and having its edge extending over the groove on the under side of the box-frame, a clamping-strip for clamping the upholstery into the groove, and clamping-bolts for drawing the strip into the grooves upon the upholstery.

2. In a seat-cushion, the combination of a box-frame having a lower flange formed with an upwardly-extending groove, spring devices supported by the box-frame, upholstery extending over the spring devices and box-frame and having its edges extending over the under surface of the lower flange of the box-frame, clamping-strips for clamping the upholstery into the grooves, clamping-bolts for drawing said strips into the grooves upon the upholstery, and sustaining cross-slats for the spring structure having their

ends extended over the lower flanges of the box-frame and held in place by the clamping-bolts.

3. In a seat-cushion, the combination of a
5 sheet-metal box-frame having upper and lower flanges the lower of which is formed with upwardly-extending grooves on the bottom and upwardly-extending ribs on the top above the grooves, spring devices supported
10 by the box-frame and resting upon the rib portions of the lower flange above the grooves, upholstery extending over the spring devices and box-frame and having its edges extending over the under surface of the
15 lower flange of the box-frame, clamping-strips formed of channel-bars with the grooved portion extending downward away from the upholstery for clamping the upholstery in the grooves, and clamping-bolts for
20 clamping the channel-bars upon the upholstery extending through the lower flange of the box-frame and having their heads shielded by the grooves of the channel-bars.

4. In a seat-cushion, the combination of a
25 box-frame having a lower flange formed with an upwardly-extending groove on the bottom an upwardly-extending rib above the groove on the top and a beaded edge, spring devices supported by the box-frame upon
30 the beaded edge and rib and secured to the lower flange, upholstery extending over the spring devices and box-frame and having its edges extending over the under surface of the lower flange of the box-frame, clamping-

strips formed of channel-bars with the
35 grooved portion extending downward away from the upholstery for clamping the upholstery into the grooves, and clamping-bolts for drawing said strips into the grooves of the flange of the box-frame and upon the upholstery said bolts having their heads shielded in the grooves of the channel-shaped clamping-strips.

5. In a seat-cushion, the sheet-metal box-frame having upper flanges B and lower
45 flanges C the latter being provided with grooves J and beaded edges C', in combination with clamping-strips H of considerably less cross-section than the cross-section of the grooves, clamping-bolts extending
50 through the clamping-strips and the lower flanges at positions corresponding to the grooves, cross-slats F resting upon the beaded edges of the lower flanges and clamped in position, springs supported upon the cross-
55 slats, spring-plates sustained by the springs and secured at their ends to the box-frame, and upholstery extending over the springs and box-frame and having its edges clamped between the grooved portions of the lower
60 flanges of the box-frame and the clamping-plates.

In testimony of which invention I hereunto set my hand.

HENRY S. HALE.

Witnesses:

R. M. KELLY.

M. J. EYRE.